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COLLEGE CATALOG AND STUDENT HANDBOOK

The purpose of this publication is to provide information about Mount Wachusett Community College to those who study and work at the college, to those who may be interested in applying for admission, and to parents, teachers, counselors, and the general public. This publication is neither a contract nor an offer to make a contract. While every effort has been made to ensure the accuracy of the information in this publication, the college reserves the right to make changes at any time with respect to course offerings, degree requirements, services provided, cost of attendance, or any other subject addressed in this publication. The information in this publication is provided solely for the convenience of the reader, and the college expressly disclaims any liability which may otherwise be incurred.
MESSAGE FROM THE PRESIDENT

Mount Wachusett Community College is a student-centered, public, college in the heart of North Central Massachusetts.

Everyone at MWCC is here to support you as you complete the admissions and financial aid process, develop a class schedule, and find a healthy work-life balance. At the Mount, your classes will be challenging, but we will help you meet and exceed those challenges. Our small class sizes and deeply engaged faculty and staff are here to help you navigate college life and meet your goals.

MWCC programs are designed to help you achieve your goals, whether you are a recent high school graduate, an adult returning to school, a military veteran, or a current high school student who wants to get an early start on college. We have been recognized nationally for our innovation and commitment to students.

With more than 70 degree and certificate programs, you will be able to match your goals to an education that will help you achieve them. You’ll also have a chance to be a part of a vibrant campus that has over 30 student clubs and organizations. You’ll also have the chance to make a difference in your community through the service learning, volunteer, internship, and co-op programs offered by our Brewer Center for Civic Learning and Community Engagement. Our students contribute more than 100,000 hours of service to our surrounding communities. These opportunities make North Central Massachusetts a better place to work and live and also provide great resume building opportunities for our students.

At the Mount, you will be able to find your place at our main campus in Gardner, MA, or at one of our satellite campuses in Leominster, Devens, and Fitchburg.

Whether you plan to head into the workforce or transfer to a four-year college, the next phase of your life will begin when you enroll here as a Mount Wachusett student. I look forward to you joining us here at the Mount and shaking your hand when you earn your diploma.

James Vander Hooven, Ed.D.

President
ABOUT MWCC

You can succeed here. MWCC can help you prepare for a new profession, upgrade your job skills, or complete a marketable degree before transferring to another college or university. We are committed to helping you align your college education with your career goals.

We provide access to an affordable education. Founded in 1963 and accredited by the New England Commission of Higher Education (NECHE), we are a public, two-year college with a cost that amounts to just a fraction of what you’d pay at some other well-known colleges. We are dedicated to serving the people of North Central Massachusetts with 70+ credit-bearing degree and certificate programs, non-credit, personal enrichment classes for lifelong learners, and workforce development that includes custom, on-site training.

You can choose a course schedule that fits your life. The majority of our students work as well as go to college, so we understand the challenges of balancing college with work and the rest of your life. That's why we offer course options to fit your schedule and location taught by university-caliber faculty. Choose from day, evening, or online courses at our 269-acre main campus in Gardner or at our satellite campuses in Leominster, Devens, and Fitchburg.

We offer the personal touch: We’re proud that our class sizes are small, and we enjoy a 15:1 student to faculty ratio. Our programs are designed in collaboration with academic and industry professionals to make sure what you learn is relevant and career-oriented. Whether you are a first-time student or you are seeking skills training for a second career, Mount Wachusett has resources beyond the classroom to support you.

Highlights of the MWCC Experience:

• Early College & K-12 Partnerships: We are a leader in early college programs through which high school students can take college classes and earn credit toward their associate degrees as they simultaneously earn their high school diplomas.

• Sustainability: The Gardner campus generates most of its energy needs on-site with two wind turbines, biomass heating, and solar panels. We have won awards for our leadership in renewable energy and sustainability.

• Civic engagement: Each year, our students complete about 100,000 hours of volunteer, community service, or internship time. These community partnerships and innovative programs, organized through the Brewer Center for Civic Learning and Community Engagement, promote positive social change and healthier, more vibrant communities.

• Veterans’ services: We support active duty veterans and their transition back to school and civilian life. We are nationally recognized for our services to veterans and their families.

• Students with disabilities: MWCC’s facilities are accessible to persons with disabilities. Persons with disabilities who may require accommodations to participate fully in program activities should contact the program director or the Coordinator of Disability Services at 978-630-9330.

• Adult Education: The Regional Adult Education Center at Mount Wachusett Community College offers free classes in Adult Education (AE), high school equivalency preparation (HiSET, formerly GED), and English for Speakers of Other Languages (ESOL).

ACCREDITATION

Mount Wachusett Community College (MWCC) is accredited by the New England Commission of Higher Education (NECHE), a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction. Accreditation of an institution by the NECHE indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one that has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation. Accreditation by the NECHE is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution’s accreditation by the NECHE should be directed to the administrative staff of the school or college. Individuals may also contact the association:

New England Commission of Higher Education
3 Burlington Woods #100, Burlington, MA 01803
Please note: certain programs have additional industry specific accreditations. See individual program information.

CAMPUS LOCATIONS
MWCC’s main campus is in Gardner and its satellite campuses are located in Leominster, Fitchburg, and Devens.

MWCC’s facilities are accessible to persons with disabilities. Persons with disabilities who may require accommodations to participate fully in program activities should contact the program director or the coordinator for students with disabilities at 978-630-9330.

VISION
Mount Wachusett Community College is the college of opportunity and a model of teaching and learning excellence.

MISSION
MWCC is a lifelong learning community dedicated to excellence in education and responsive to the changing needs of the communities we serve. Our focus is the preparation of individuals for lives of fulfillment, leadership, and service in a diverse and global society. We are committed to engaging students in rich and challenging learning opportunities within a small college atmosphere that is known for its personal touch.

SHARED VALUES
Mount Wachusett Community College is a community of learners where all are welcomed, valued for their individuality, and applauded for their unique contributions to making the college a special place to learn, work, gather, and grow. Students, faculty, and staff recognize the importance of diversity in sustaining a rich, healthy, and vibrant environment and affirm the following values that unite us as a collective body and guide our daily interactions.

Human Potential: We believe that every member of our community (student, faculty, staff, and service area resident) has the potential to learn, grow, develop as an educated and engaged citizen, and lead meaningful joyful lives.

Pursuit of Excellence: We strive for excellence in all that we do as an institution, within divisions, departments, and as individuals. We continuously assess our performance and set challenging goals and standards to attain the best possible service to our community.

Mutual Respect and Trust: We treat each member of our community as a valued person deserving dignity, respect, equity, and trust. Through words and actions, we accept differences, share perspectives, and honor the trust placed in us as demonstrated by our honest and ethical words and actions and cooperative and collaborative work.

Institutional Integrity: We hold ourselves and others accountable for forwarding the vision, mission, and priorities of the college and living by our mission driven principles. We hold ourselves and others accountable for supporting and advancing each other, the organization, and the individuals that we pledge to serve; for acting professionally; for fulfilling commitments, demonstrating good judgment, assessing our effectiveness and applying facts to continually renew as individuals and as a college.

Considerate Open Communication: We readily share information and ideas, encourage the exchange of ideas and opinions, listen without judgment, speak honestly and respectfully, and freely and productively engage in discussions.

Creativity and Responsible Risk Taking: We motivate ourselves, students, and colleagues to think creatively in the face of challenge, try new ideas and approaches, and are innovative recognizing that responsible risk taking is vital to innovation, growth, and advancement.

Cooperation and Collaboration: We look beyond self-interest and work for the greater good of the whole by being positive and active participants and contributors to the realization of common goals, encouraging and supporting others, being helpful in difficult situations, and building consensus to achieve results.
STRATEGIC GOALS

1. Access

We commit to building access to opportunities for learning for all and creating new linkages that increase the region’s college-going rate, improve affordability, increase participation among diverse and nontraditional populations, increase college enrollment, and increase the opportunity to develop skills needed for employment.

2. Success

We are a community of learners in which all students, faculty, staff, and administrators are active participants in the principles of lifelong learning and where engaged teaching and learning form the foundation for improved student outcomes, demonstrated by increased rates of completion, retention, graduation, transfer, and acquisition of career skills.

3. Learning

We provide innovative, effective teaching and superior quality in academic programs. We seek to impart to students a comprehensive general education, up-to-date and industry driven knowledge, and the ability to make an impact on their lives and community. Collaboratively, we shall continuously strive to improve our academic offerings by being responsive to industry needs through comprehensive outcomes assessment as well as implementing and sustaining innovative teaching and learning strategies and policies; and by supporting and developing a college faculty who focus their development and practice on employing exemplary teaching, learning, and advising strategies.

4. Progress

We will devote our efforts and resources to demonstrate effectiveness and efficiency in business operations that lead to institutional self-sufficiency. Further, we shall serve as a prominent driving force and resource in the region in the areas of economic development, leadership, and innovation.
CAMPUSES

Main Campus
Gardner
444 Green Street
Gardner, MA 01440-1000
978-632-6600

From Fitchburg and Points East: Route 2 West to Route 140 North (Exit 24B). The exit sign reads “140 North to Winchendon and Ashburnham.” Proceed three miles on this route. Pass through two traffic lights. Proceed one-half mile past the second light and take a left turn onto Matthews Street. The college entrance is one mile on the right.

From Western and Central Massachusetts: Route 2 East to Route 140 North (Exit 24). Turn left at the end of the exit ramp. Proceed three miles on this route. Pass through two traffic lights. Proceed one-half mile past the second light and take a left turn onto Matthews Street. The college entrance is one mile on the right.

From Worcester and Providence: I-190 North from Worcester. From I-190, take Route 2 West to Route 140 North (Exit 24B). Exit sign reads “140 North to Winchendon and Ashburnham.” Proceed one-half mile past the second light and take a left turn onto Matthews Street. The college entrance is one mile on the right.

From Points North: Route 12 South to Route 140 South. Bear right onto Green Street. The college is one-half mile on the left.

Devens Campus
One Jackson Place
27 Jackson Road
Devens, MA 01434
978-630-9569

From Route 2: From Route 2 East, take Exit 37; from Route 2 West, take Exit 37B. When you exit Route 2, you will be on Jackson Road. Go approximately one mile and you will pass through a blinking light at the Lake George Street/Patton Road intersection. Go through the light and your next left will bring you into the parking lot. Look for the sign, “Mount Wachusett Community College—Home of the BioManufacturing Program.”

Fitchburg Campus (Dental Hygiene Program)
326 Nichols Road*
Fitchburg, MA 01420
978-630-9413
*located on the 2nd floor of the Babineau Professional Building

Leominster Campus
100 Erdman Way
Leominster, MA 01453
978-630-9810

From Points East: Route 2 West to Route 12 North (Exit 31B). At the end of the exit ramp, go right. At the set of lights, take a right onto Erdman Way. The campus is located in the second building on the left (red brick building) across from the DoubleTree by Hilton Hotel. Drive around the building and use the back parking lots. We are on the 2nd floor at 110 Erdman Way.

From Points West: Route 2 East to Route 12 North (Fitchburg) (Exit 31). At the end of the exit ramp, go left at the set of lights. (You will cross over Route 2). At the next set of lights, take a right onto Erdman Way. The campus is located in the second building on the left (red brick building) across from the DoubleTree by Hilton Hotel. Drive around the building and use the back parking lots. We are on the 2nd floor at 110 Erdman Way.
## OFFICES AT A GLANCE

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<td>Academic Affairs</td>
<td></td>
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<tr>
<td>Admissions</td>
<td><a href="mailto:admissions@mwcc.edu">admissions@mwcc.edu</a></td>
<td>978-630-9110</td>
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<td>Advising Center</td>
<td><a href="mailto:advisor@mwcc.mass.edu">advisor@mwcc.mass.edu</a></td>
<td>978-630-9109</td>
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<tr>
<td>Bookstore</td>
<td><a href="mailto:bookstore@mwcc.mass.edu">bookstore@mwcc.mass.edu</a></td>
<td>978-632-8238</td>
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<tr>
<td>Campus Police</td>
<td><a href="mailto:campuspolice@mwcc.mass.edu">campuspolice@mwcc.mass.edu</a></td>
<td>978-630-9150</td>
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<tr>
<td>Center for Civic Learning &amp; Community Engagement</td>
<td><a href="mailto:community@mwcc.mass.edu">community@mwcc.mass.edu</a></td>
<td>978-630-9435</td>
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<td>Disability Services</td>
<td><a href="mailto:studentservices@mwcc.mass.edu">studentservices@mwcc.mass.edu</a></td>
<td>978-630-9120</td>
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<td>Financial Aid</td>
<td><a href="mailto:financialaid@mwcc.mass.edu">financialaid@mwcc.mass.edu</a></td>
<td>978-630-9169</td>
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<td>Mount Fitness</td>
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<td>978-630-9212</td>
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<td>978-630-9254</td>
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<td>Lifelong Learning</td>
<td><a href="mailto:LLL@mwcc.mass.edu">LLL@mwcc.mass.edu</a></td>
<td>978-630-9525</td>
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<td>978-630-9106</td>
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<td><a href="mailto:studentlife@mwcc.mass.edu">studentlife@mwcc.mass.edu</a></td>
<td>978-630-9148</td>
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<td>Student Services</td>
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<td>978-630-9855</td>
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<tr>
<td>Student Email</td>
<td><a href="mailto:helpdesk@mwcc.mass.edu">helpdesk@mwcc.mass.edu</a></td>
<td>866-520-7129</td>
</tr>
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<td>Testing Services</td>
<td><a href="mailto:testingservices@mwcc.mass.edu">testingservices@mwcc.mass.edu</a></td>
<td>978-630-9244</td>
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<td>Transfer Out</td>
<td><a href="mailto:advisor@mwcc.mass.edu">advisor@mwcc.mass.edu</a></td>
<td>978-630-9197</td>
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<td><a href="mailto:rx@mwcc.mass.edu">rx@mwcc.mass.edu</a></td>
<td>978-630-9297</td>
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<td>TRIO SSS (Visions Program)</td>
<td><a href="mailto:visions@mwcc.mass.edu">visions@mwcc.mass.edu</a></td>
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<td><a href="mailto:ssavoie7@mwcc.mass.edu">ssavoie7@mwcc.mass.edu</a></td>
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ADMISSIONS

The MWCC Admissions Office welcomes applications to over 70 academic programs. Whether your goal is an associate degree or a certificate, selected courses for job training, or preparation for transfer or personal growth, MWCC’s admissions staff will help you through every step of the process. The mission of the MWCC Admissions Office is to be a model of student recruitment and enrollment excellence. The Admissions Office is located on the first floor of the main building at the Gardner Campus, and representatives are readily available for consultation. The Admissions Office may be contacted at 978-630-9110 or admissions@mwcc.edu.

While all students are welcome to consider MWCC, the college gives priority consideration to legal residents of Massachusetts. Out-of-state students are welcome and encouraged to apply, and may be eligible for admission under the New England Regional Student Program, if from a neighboring state.

Prospective students are not guaranteed admission to MWCC. Due to changes in enrollments and academic programs, the college reserves the right to update admission criteria at any time. To be admitted, applicants must have a high school diploma or General Equivalency Diploma (HiSet/GED). Certificates of completion are not accepted to demonstrate successful completion of secondary school. In addition, all applicants must demonstrate the ability to perform college-level work and conduct themselves in accordance with all college policies. In cases where tests or other indicators suggest the contrary, the college reserves the right to deny admission.

If you are considering one of our selective majors, information sessions pertaining to these programs are available throughout the year and attendance at an information session may be required prior to submitting an application to a selective program.

To arrange an appointment for a campus tour or to attend an information session, contact the Admissions Office at 978-630-9110, TTY 978-632-4916, or admissions@mwcc.edu. More information about MWCC, including the steps necessary to enroll, can be found here (http://mwcc.edu/admissions/). Academic program and gainful employment information can be found here (http://mwcc.edu/catalog/degrees-certificates/).
HOW TO APPLY

Applicants are encouraged to matriculate by selecting a certificate or degree program at the time of application. Those applicants not seeking a degree or certificate can elect to apply as a non-matriculated or guest student.

MATRICULATED STUDENTS

(Applicants enrolling in a degree or certificate program)

• Review the admissions and academic requirements for your program of choice. Some programs require prerequisite course work. Current high school students may be accepted into a major pending verification of high school graduation.
• Complete the admissions application. Applications may be submitted online (http://mwcc.edu/enroll/admissions/apply/) or obtained from the MWCC Admissions Office. Mail applications to:

  MWCC
  Admissions Office
  444 Green Street
  Gardner, MA 01440

• Mail official high school/homeschool/high school equivalency assessment and college transcripts to:

  MWCC
  Admissions Office
  444 Green Street
  Gardner, MA 01440

• Copies of an official college transcript are required if:
  1. you are applying to one of MWCC’s selective programs, or
  2. you seek to transfer college credits, or
  3. you have been awarded an educational certificate from outside the U.S. Those documents awarded from a country outside the U.S. must be evaluated to US standards through a credential evaluation agency. A partial list of agencies may be found at the National Association of Credential Evaluation Services (NACES) (http://www.naces.org).

NON-MATRICULATED STUDENTS

(Applicants not seeking a degree or certificate from the college, known as guest students, are ineligible for financial aid)

• Complete the admissions application. Mail applications to:

  MWCC
  Admissions Office
  444 Green Street
  Gardner, MA 01440

• Non-matriculated or guest students must meet prerequisite requirements for all courses. Prerequisites can be met through placement testing or review and approval of equivalent college coursework.
• Students who wish to matriculate after being admitted as a non-matriculated or guest student should contact the Admissions Office. Students will need to declare a major and/or complete an updated admissions application, comply with all requirements of matriculation, and certify that they have completed their high school diploma/high school equivalency assessment. The change will then be effective for the following semester.
ANNUAL SECURITY REPORT

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (20 U.S.C. 1092(a) and (f)), commonly known as the Clery Act, and the Violence Against Women Act (VAWA) reauthorization of 2013, MWCC publishes an Annual Security Report annually by October 1st. The report details current policies and procedures related to campus safety and crime statistics for the previous three calendar years. Each year, an email notification is made to all enrolled students, faculty and staff providing information on how to access the Annual Security Report on line. The report is published on the MWCC website at http://mwcc.edu; under Public Disclosure/Health and Safety/Annual Security Report. The report is available in printed form from the Offices of Student Services, Admissions, Human Resources, and Campus Police on the Gardner Campus and the main offices on the Leominster, Devens, and Fitchburg Dental Education Campuses. The printed report can also be requested via mail, email, or phone through the MWCC Office of the Chief of Police and Public Safety, 444 Green Street, Gardner, MA 01440 (978) 630-9365, k_kolimaga@mwcc.mass.edu. Click here (https://mwcc.edu/wp-content/uploads/2019/09/Security-Report-2019.pdf) for the 2019 report.

APPLICANTS WHOSE PRIMARY LANGUAGE IS NOT ENGLISH

The college's mission of access and inclusion offers educational opportunities to persons seeking a college education, as well as to those who need to increase their English language proficiency. The college employs bilingual staff members to assist students needing guidance with their initial enrollment processes. Primary speakers of Spanish or other languages may apply to any academic program and may enroll in English as a second language, or other English courses, as needed, to satisfy prerequisite requirements. International applicants are required to submit proof of English proficiency. Please call the Admissions Office at 978-630-9110 for more information.

SOLICITANTES QUE SU LENGUAJE PRIMARIO NO ES INGLÉS

La misión de el colegio de acceso e inclusión ofrece oportunidades a personas que buscan educación y necesitan aumentar su conocimiento del Inglés. El colegio emplea personas que son bilingües para asistir a los estudiantes que necesiten ayuda con su proceso inicial de inscripción. Personas que su lenguaje primario es el Español u otro lenguaje, pueden aplicar a cualquier programa académico y pueden matricularse en Inglés como Segundo Idioma u otros cursos en Inglés para cumplir con sus requisitos. Se requiere que todos los solicitantes internacionales a presentar la prueba de dominio del Inglés. Por favor llame a la oficina de admisiones 978-630-9110 para más información.

CAMPUS TOURS & INFORMATION SESSIONS

Prospective students are encouraged to visit MWCC, tour the campus, and attend one of our many information sessions. To learn more about our tours, or to schedule your visit, please see our website at http://mwcc.edu/enroll/admissions/visit/ or contact the Admissions Office at 978-630-9110 or admissions@mwcc.edu.

If you are interested in a group tour, please contact the Admissions Office at 978-630-9110 for arrangements. So that we can best serve the needs of your group, please provide us with two weeks' lead time for large group tours.

COURSE PLACEMENT OPTIONS

MULTIPLE MEASURES

Placement testing may be waived for students who meet other measures of placement. These measures include:

• TRANSFER CREDIT: The student has completed previous college-level English and math courses that have been accepted for transfer credit.

• Students that have completed an accredited Bachelor’s degree may be eligible for direct placement into ENG 101 even if they have not taken a transferable ENG 101 course.

• GRADUATED HIGH SCHOOL GPA: Graduated high school students with a 2.7 GPA or higher from within the past three years do not need to sit for math sections of the placement test. Graduated high school students with a 2.7 GPA or higher from within the past ten years do not need to sit for English sections of the placement test.

• HISET: Students with a HiSET Mathematics score of 15 or higher from within the past three years do not need to sit for math sections of the placement test. Students with a HiSET English Language Arts score of 15+ from within the past ten years do not need to sit for the English sections of the placement test.
• **GED:** Students with a GED Mathematical Reasoning score of 165 or higher from within the past three years do not need to sit for math sections of the placement test. Students with a GED English Language Arts score of 165 or higher from 2014 or later do not need to sit for the English sections of the placement test.

• **SAT/ACT:** Students with an SAT Reading and Writing score of 600 or higher or an ACT English Language score of 22 or higher do not need to sit for the English sections of the placement test.

**COLLEGE PLACEMENT TEST**

The College Placement Test by Accuplacer is used to determine proficiency in reading, writing, and math.

Students must complete all required sections of the Accuplacer no more than three years prior to the start of their desired terms, regardless of their desired course or program. The results are used by to place a student in appropriate courses. The scores are valid for a period of three years.

Students whose skills in these areas are not college level are placed in either foundation and/or English as a Second Language courses, as appropriate. The reading, writing, and mathematics tests are computerized and may be repeated once for a $10 retest fee. Permission for a third attempt, with a $10 retest fee, may be granted under special circumstances. Students requesting a third or more test attempt must meet with the Director of Academic Support and Testing Services for a discussion about their options. Students who do not earn a satisfactory grade in a foundation course cannot retest to place into a higher level course within the discipline unless they are being re-admitted to the college or have approval from the Division Dean.

Information about the content of the College Placement Test and how to review before taking it can be found on the Testing Services webpage. Students may also call 978-630-9244 for this information. Students with a documented disability who need an accommodation should contact the Coordinator of Disability Services at 978-630-9330 before scheduling a placement test.

**ESL PLACEMENT TEST**

The ESL Placement Test by Accuplacer is used to determine students' level of proficient in reading, writing, and language use. The results are used to place a student in appropriate courses. The scores are valid for a period of three years. Students may place into either credit or non-credit level courses. The test is computerized and may be repeated once. Permission for a third attempt may be granted under special circumstances. Students requesting a third or more test attempt must meet with the Director of Academic Support and Testing Services for a discussion about their options. There is no fee associated with any attempt of the ESL Placement test.

Information about the content of the ESL Placement Test and how to review before taking it can be found on the Testing Services webpage. Students may also call 978-630-9244 for this information. Students with a documented disability who need an accommodation should contact the Coordinator of Disability Services at 978-630-9330 before scheduling a placement test.

**DOCUMENTATION OF HIGH SCHOOL DIPLOMA OR EQUIVALENCY**

For proof of high school diploma or equivalency, the college will accept any of the following:

• An official high school transcript sent directly to the college from the high school.
• An official high school equivalency assessment transcript sent directly from the issuing agency.
• Self-certification of completion of a high school degree, if the certification is provided after the high school graduation date.
• Original high school diploma or original high school equivalency assessment certificate brought to Admissions Office (photocopy retained).
• For records that are unobtainable or destroyed, applicants may submit a letter from the school superintendent (on official letterhead and with high school seal) indicating date of graduation and/or completion of high school or home school education.
• If a letter from a school superintendent is not available for missing or destroyed records, students may submit a signed statement explaining lack of availability to the Director of Admissions for consideration.
• Those documents awarded from a country outside of the U.S. must be evaluated to U.S. standards through an acceptable credential evaluating agency. A partial list of credential evaluating agencies can be found on the web at the National Association of Credential Evaluation Services (http://www.naces.org) (NACES). Applicants who are unable to obtain a copy of their high school diploma or transcript may document their high school completion status by obtaining a copy of a "secondary school leaving certificate" (or other similar document) through the appropriate central government agency (e.g., a Ministry of Education) of the country where the secondary education was completed.
• The acceptability of a high school diploma is determined by an evaluation of the institution’s accreditation and curriculum. A high school diploma may be accepted if recognized by the state in which it was issued as offering a curriculum consistent with state law. Certificates of completion and diplomas representing non-academic curriculum will not be accepted.
EARLY COLLEGE & DUAL ENROLLMENT PROGRAMS

Through the Division of Access and Transition, which manages K-12 partnerships in the region, MWCC administers several College Access, Dual Enrollment and Early College programs. These programs provide middle and high school students with an array of academic, college and career awareness services, including, but not limited to, academic and career counseling, tutoring, mentoring, college tours, workshops and activities. Services are generally provided through targeted grant initiatives. In addition, MWCC hosts several annual events and activities designed for students and parents, which are open to the public. Most programs are free of charge. For more information on any program, call 978-630-9248 or visit our website.

GETTING A HEAD START ON COLLEGE

Whether in high school or homeschool programs, juniors and seniors (age 16 or older) can enroll in MWCC classes prior to high school graduation and take courses that may transfer to most two and four-year public and private institutions while also completing their high school graduation requirements. Participants are considered MWCC students and enjoy all the same benefits and responsibilities. Students are encouraged to participate fully in college activities and programs, including the Honors Program, academic support services and other co-curricular activities. Students may enroll at MWCC on either a part- or full-time basis. Students are non-matriculated, but permitted to adhere to the catalog year in which they begin taking dual enrollment courses.

Traditional Dual Enrollment

Students who wish to take classes at an MWCC campus from a high school that does not participate in an early college or dual enrollment partnership may still enjoy this benefit, through traditional dual enrollment. High school students who intend to complete a portion of their junior or senior year at the college through MWCC’s Traditional Dual Enrollment program must:

- Submit a completed Dual Enrollment Admission Application, with guidance counselor and parent/guardian signature. This application is available at this website or through the Admissions Office at 978-630-9110 or admissions@mwcc.edu.
- Apply no later than August 16 for fall 2020 classes, January 2 for spring 2021 classes and June 21 for summer 2021 classes (applications received after these deadlines will be reviewed on a case-by-case basis).
- Be 16 years of age or a current junior or senior and hold a minimum 2.8 GPA (official transcript required). The college will recalculate all GPAs on a 4.0 scale.
- Take the Accuplacer college placement assessment, and place into college level English and Math. Students who do not test into college level courses in both subjects may be permitted to take foundation level courses with the approval of their high school and the Division Dean.

Dual enrollment applicants must complete a personal interview, sign a student contract, and meet established guidelines of MWCC and their participating high school. Students enrolled in traditional dual enrollment are not allowed to participate in classes beginning after 6:00 PM without permission from the student’s high school and parent or guardian. Students enrolled in dual enrollment programs are not allowed to participate in web classes without permission from the student’s high school and parent or guardian. Students enrolled in this program must pay all college tuition/fees, and are ineligible for financial aid while they are enrolled in high school.

Gateway to College

Gateway to College is open for application for the 2020-2021 academic year.

Through this program, students who have stepped out of traditional high school, who are behind in academic credits, or who are at significant risk of dropping out of high school, receive a second chance to achieve educational success. Students ages 16-21 can enroll at MWCC to earn both high school and college credits toward a high school diploma and associate degree or certificate. This program is offered through a partnership with the Gardner Public School District at MWCC’s Gardner Campus. Students interested in Gateway to College must attend an information session in spring of 2020 for entry in fall of 2020, complete an application, interview with a Gateway to College Resource Specialist and take the college placement test. Students from across the region are eligible to apply to the program; students from outside Gardner must school choice into Gardner to participate in the program. Additional information is available at this website (https://mwcc.edu/academics/k-12/programs/gateway/), or by calling the Division of Access & Transition at 978-630-9248.

Pathways Early College Experience

Pathways Early College Experience is open for application for the 2020-2021 academic year. This year only, students who participated in other dual enrollment programs as juniors, and who have completed a minimum of 27 credits may apply to be accepted into the program as Seniors in fall of 2020.
The Pathways program is an Early College high school opportunity for motivated high school/home school students about to enter their junior year, who would like to get a jump start on college. The Pathways program provides an opportunity to earn a high school diploma and Associate’s degree while completing the junior and senior years of high school at MWCC’s Gardner Campus. Admission into the program is a competitive process. This program is offered through a partnership with the Gardner Public School District and Mount Wachusett Community College. Students interested in Pathways must attend an information session in spring of 2020 for admission in fall of 2020, complete an application, take the Accuplacer test and place into College Level, and participate in an interview. Students must have a GPA of a 3.0 or higher to be considered for Pathways Early College Experience. Additional information is available at this website (https://mwcc.edu/academics/k-12/programs/pathways/) or by calling the Division of Access & Transition at 978-630-9248.

**North Central Massachusetts Early College Academy**

Students enrolled at Gardner High School, Leominster High School, Fitchburg High School and Sizer School may apply for the North Central Massachusetts Early College Academy. At FHS and LHS, classes primarily take place at each high school, during the school day, and are taught by MWCC or Fitchburg State University faculty. Students at Sizer School primarily take courses at Fitchburg State University, and students from Gardner High School take courses at the MWCC campus.

Students will attain both high school and college credit for successfully completed courses, and are eligible to attain 12 or more college credits prior to high school graduation in a defined academic pathway, such as Healthcare or Liberal Arts & Sciences. There is no cost to students for these courses. This program is offered in partnership with these schools and Fitchburg State University. For additional information, interested students should contact their respective guidance office at participating schools.

**Dual Enrollment High School Partnerships**

Students enrolled at area schools in the North Central region who have established a dual enrollment partnership, including Montachusett Regional Technical Vocational School, Ayer-Shirley Regional High School, North Brookfield High School, and Athol High School also have the opportunity to participate in dual enrollment courses onsite at their respective high schools. Students can attain both high school and college credit for successfully completed courses. For additional information, interested students should contact their respective guidance office at participating schools.

Students at Athol High School, Gardner High School and Fitchburg High School are also partners with MWCC through the Health Career Opportunity Program (HCOP), and have the opportunity to participate in the HCOP Catalyst Program. At GHS and FHS, students participating in this program may also apply to be part of the Early College Academy. Enrollment in HCOP is designed to provide an introduction to allied and behavioral health career fields, with exposure to coursework in health fields, medical terminology, cultural competence and professional behaviors needed for a future healthcare career. For more information, interested students should contact the HCOP Director at 978-630-9307, or visit the HCOP website (https://mwcc.edu/health-career-opportunity-program-hcop/).

**HEALTH INSURANCE & IMMUNIZATION REQUIREMENTS**

All students enrolled for nine credits or more per semester must participate in the Massachusetts Community College Health Insurance Plan, unless the student can provide verification of comparable coverage.

The college’s comprehensive health insurance covers accidents and sickness for both hospital and non-hospital confinement services. It is recommended that each student compare the benefits of his/her current coverage before transferring to the college policy. The fee for this insurance is included on the bill for students enrolled in nine credits or more, unless an insurance waiver is provided. Details of this coverage may be obtained from the Student Accounts Office, the Health Services Office, or at the Gallagher Student Health website (http://www.gallagherekoster.com).

Mandatory Immunization Requirements for College Students (as required by 105 CMR 220.600: M.G.L. c.76, §§ 15C Chapter 76 Section 15B of the General Laws of Massachusetts) include the following:

- In order to be registered at an institution of higher learning, 1. every full-time undergraduate student including cycle students (registered for 12 credits or more in a semester); 2. every full-time or part-time undergraduate student in a health science program who is in contact with patients; and 3. every student on a student visa, including all International students attending or visiting classes as part of a formal academic visitation exchange program, must present a physician’s certificate that such student has received the necessary immunizations. A school immunization record may be presented in lieu of the certificate.
  - **2 doses Measles, Mumps Rubella (2MMRs) immunization or proof of immunity** (*exempt if born in the U.S. before 1957 except for all Health Science students*).
  - **1 dose Tdap once, then TD booster every 10 years.**
• 3 doses Hepatitis B vaccine or proof of immunity (please attach lab report). Health Science students must submit a positive Hepatitis B titer in addition to vaccine record.

• 2 doses Varicella vaccine or titre to prove immunity (please attach lab report) required for all Health Science Students. All non-Health Science Students must provide reliable history verified by a physician (exempt if born in the U.S. before 1980).

• Meningococcal vaccine is required for all full-time student’s ages 16-21.

• Annual Influenza vaccine required for all Health Science students.

• The requirements of 105 CMR 220.600 shall not apply where: The student provides written documentation that he or she meets the standards for medical or religious exemption set forth in M.G.L. c.76.

• Students may be registered on the condition that the required immunizations are obtained within 30 days of registration.

• Additional MWCC requirements:

  • All Health Science students need to comply with additional immunization and health requirements set forth by their individual programs. Please refer to your specific health science program for special program requirements.

  • All Health Science students and every student on a student visa, including all foreign students, need to provide proof of an Intradermal Tuberculin Test (TB).

  • All Health Science students must comply with immunization and health requirements prior to attending clinical practices.

  • The college requires all full and part-time Health Science students to have a physical examination by the student’s private physician conducted within the last two years.

Health records may be obtained from your physician or your high school records. Information concerning immunizations may be obtained from the MWCC Health Services Office. For more information, please contact the Health Services Office at 978-630-9136.

HOMESCHOoled STUDENTS

All home schooled students, without a high school diploma or high school equivalency assessment, are eligible to apply for admissions to a degree or certificate program, provided they have successfully completed an approved home school program in accordance with Massachusetts General Laws or the laws of their home state.

To determine whether a student has participated in an approved home school program, the student shall submit, along with the application for admission, evidence that the home school program was approved by the superintendent or school committee of the student’s school district. Additionally, if the home schooled student is under the age of compulsory attendance, which is sixteen (16) years old in Massachusetts, a letter from the student’s school district’s superintendent or school committee is required stating that the student is not considered truant. Students who complete a home school program before the age of sixteen (16) are also required to submit similar documentation. If the home school program was not approved by the school district, applicants must complete a high school equivalency assessment.

The college reserves the right to limit or deny enrollment of any student under the age of sixteen (16) in a course or program based on a case-by-case consideration of a variety of factors, including but not limited to: the student’s maturity, life experience, placement test scores, prior education, course content, instructional methodology, and potential risks associated with participation in a particular course or program.

For more information, please contact the Admissions Office at 978-630-9110 or admissions@mwcc.edu.

INTERNATIONAL APPLICANTS

The following information is required of all international applicants:

• A complete international student application.

• An official evaluation to U. S. standards of secondary/high school record, completed through a credential evaluating agency. Agencies may be found on the web at the National Association of Credential Evaluation Services (http://www.naces.org) (NACES).

• Official evaluations to U.S. standards of all college/university coursework, indicating grades earned with official explanation of grading system, completed through an acceptable credential evaluating agency. Agencies may be found on the web at the National Association of Credential Evaluation Services (http://www.naces.org) (NACES).

• Transfer applicants currently enrolled at another U.S. college or university must submit a completed “I-20 Transfer Request Form” signed by your current college/university and current transcript.
• Copy of passport. If currently in the U.S., copy of current visa.

**STUDENT VISAS**

The issuance of certificates for student visas [INS Form I-20 A-B, Certificate of Eligibility for Nonimmigrant (F-1) Student-For Academic and Language Students or Form I-20M-N, Certificate of Eligibility for Nonimmigrant (M-1) Student Status for Vocational Students] will not be given until all of the above items have been received and the applicant has been accepted to the college.

To avoid delays in processing your application, please complete all items required in a typed format or legible handwriting; make sure the name on your application matches the names on your transcripts and all immigration documents; and provide all required documentation prior to the deadline.

**APPLICATION DEADLINES FOR INTERNATIONAL APPLICANTS**

May 15 for the fall (September) semester or November 1 for the spring (January) semester. Late applicants may be considered at the discretion of the Dean. Students interested in entrance after established deadlines should contact the Admissions Office at 978-630-9110 or admissions@mwcc.edu

**ENGLISH PROFICIENCY**

All international applicants from countries where the primary language is not English are required to submit proof of proficiency in the English language. Acceptable proof includes:

• The Test of English as a Foreign Language (TOEFL), with a minimum score of 500 on the paper-based exam, or a minimum score of 173 on the computer-based exam, or a minimum score of 61 on the internet-based exam completed within two years of the application deadline. For more information on TOEFL testing, contact the TOEFL Educational Testing Service (http://www.ets.org/toefl/). OR
• The International English Language Testing System (IELTS), with a minimum score of 5.0 completed within two years of the application deadline. For more information on IELTS testing, contact the International English Language Testing System (http://www.ielts.org). OR
• Completion of a college-level English Composition course at a United States college or university with a grade of "C" or better. OR
• Satisfactory Accuplacer scores.

**AFFIDAVIT OF SUPPORT AND FINANCIAL STATEMENT**

Applicants must prove they have sufficient funds to study for one year with a reasonable expectation that the funding will continue for the full course of study. The information requested on the Affidavit of Support and Financial Statement is required by the U.S. Citizenship and Immigration Services and by U.S. consulates to ensure the financial stability of persons admitted to the U.S. as students. You should not plan on supplementing your financial support with employment because there are very strict limitations on the employment of international students in the U.S. The financial statement must be accompanied by supporting evidence, such as original copies of: notarized bank statements in the applicant’s name; a scholarship award letter from a foundation, agency, or government; a notarized letter from an individual sponsor indicating the intention to provide support for the specified amount, which must be accompanied by a bank statement showing the ability to do so. We recommend that you retain duplicate copies of the financial statement and supporting evidence to facilitate your dealings with the U.S. consulate and/or the U.S. Department of Homeland Security (Immigration and Customs Enforcement Service).

**SEVIS FEE**

The SEVIS fee is required of all foreign nationals who come to the United States for the purpose of pursuing a full course of study in institutions such as colleges, universities, and language training programs. The fee is payable one time for each single educational program in which an F-1 or F-3 student participates, extending from the time the student is granted F-1 or F-3 status to the time the student falls out of status, changes status, or departs the U.S. for an extended period of time. For more information, please visit the SEVIS I-901 Fee Processing Website (https://www.fmjfee.com).
JANUARY ADMISSION

Students are welcome to enroll during several periods throughout the academic year. For students choosing to begin their studies in January, it should be noted that some introductory courses may not be offered during the spring semester (January - May). Please contact the Admissions Office to begin your enrollment.

MINIMUM AGE REQUIREMENT

In accordance with Massachusetts state law, students without a high school diploma or GED®/HiSet® Exam credential should meet a minimum age requirement of 16 years of age or be a registered high school junior or senior in order to be considered for admission to MWCC as a non-matriculated student. Any applicant under the age of 16 must complete an Age Requirement Waiver Request form and meet with the Director of Admissions for an interview. Please call 978-630-9110 to schedule an appointment.

NEW ENGLAND REGIONAL STUDENT PROGRAM

MWCC participates in the New England Regional Student Program (NERSP). This program, administered by the New England Board of Higher Education (https://nebhe.org/tuitionbreak/), offers qualified out-of-state residents the benefit of reduced tuition to study at any of the publicly-supported institutions of higher education in New England. For more information, please contact the Admissions Office at 978-630-9110, or at admissions@mwcc.edu.

READMISSION

Students who have previously attended the college and would like to be considered for readmission, after an absence of one year or more, should contact the Admissions Office in Gardner, the Leominster Campus, or the Devens Campus to reapply for admission. Upon readmission, students are required to meet with an academic advisor prior to registration. Readmission results in the assignment of a new catalog year. MWCC graduate readmits may not be readmitted to the same academic program from which they previously graduated.

RESIDENCY

A Massachusetts resident student is defined as a US citizen, resident alien/permanent resident, or lawful immigrant who lives in the Commonwealth of Massachusetts. To be eligible for in-state tuition at a Massachusetts community college, an applicant must:

- Establish residency in Massachusetts for at least six (6) continuous months prior to the beginning of the academic period for which the applicant seeks enrollment (if the applicant is an unemancipated minor, this standard of residency applies to the parent or legal guardian) and intend to remain in Massachusetts indefinitely; or
- Qualify for in-state tuition reciprocity under the New England Regional Student Program and meet the requirements of the Massachusetts Department of Higher Education, including residency in his/her home state; or
- Be a qualifying veteran or dependent of a qualifying veteran under the Veterans Access, Choice and Accountability Act of 2014 (Public Law 113-146). Mount Wachusett Community College complies with Section 702 policy (regarding in-state tuition) for public Institutions of Higher Learning.

Persons who are on student immigration visas or other immigration visas who have declared as a condition of their visa that they intend to return to their homeland shall be ineligible for in-state tuition. Other non-citizens who have satisfied the residency requirement may establish an intent to remain in Massachusetts indefinitely, and therefore may be eligible for in-state tuition, by maintaining one of the following immigration statuses:

- Permanent Resident Aliens;
- U.S. permanent residents with I-151, I-551, and I-551C forms;
- students who have an I-94 from the U.S. Department of Homeland Security (Immigration and Customs Enforcement Service) with one of the following designations stamped on the card: refugee; Cuban-Haitian entrant status pending; or asylum granted;
- international students with student visas who are married to U.S. citizens or permanent residents.

Other non-citizens may also be eligible for in-state tuition (“S” courses). In all cases, the college will conduct a case-by-case analysis.
SELECTIVE PROGRAM REQUIREMENTS

The college offers a number of selective admission programs, outlined on the following pages. Selection for these programs is very competitive and a student’s past educational achievement is measured against all other student applicants. Students are strongly advised to not apply to more than one selective program per term of desired entry. For students in need of guidance determining their career path, the college offers a number of career exploration opportunities.

Admission to MWCC’s selective programs requires additional application components and must be evaluated for acceptance by the admission committee for that program. Space is limited, the process is competitive, and not all applicants will be granted admission. In addition to all prerequisites required for consideration, the admission committee reviews any additional academic coursework completed, as well as the applicant’s work experience. Program applications displaying all deadlines and program requirements are available in the Admissions Office at the Gardner campus, as well as on the college’s website (http://mwcc.edu/admissions/apply-to-mwcc/).

Applicants must submit all official documentation and demonstrate minimum requirements for consideration no later than the close of business on the posted deadline date to be considered for acceptance. Coursework in progress at time of deadline will not be used to meet minimum requirements. If the posted deadline falls on a Saturday, Sunday or a holiday, the effective deadline will be the close of business on the next business day. The college may return applications received after the posted deadline without review. Incomplete applications submitted prior to the deadline will not be considered for review. All applicants will be notified of the admission decision by mail approximately 60 days following the application deadline. If selected for admission, students will be required to submit a nonrefundable deposit with their confirmation of acceptance. Students admitted to selective programs must attend a mandatory orientation/welcome session prior to the start of classes; no exceptions will be made. If an applicant is accepted, proof of immunization will be required and must be received prior to class registration. Applicants should refer to the program application form for a list of these requirements. Students previously convicted of a felony may not be eligible for professional licensure or placement in clinical settings. Certain clinical sites may require drug testing for some MWCC health professions academic programs. Students may not co-enroll in more than one selective program at any given time.

CORI/SORI (CRIMINAL/SEXUAL OFFENDER RECORDS INFORMATION) POLICIES

In order for a student to be eligible to participate in an academic community or clinical program that involves potential unsupervised contact with children, the disabled, or the elderly, the student may be required to undergo a Criminal Offender Record Information (CORI) check and/or a Sex Offender Registry Information (SORI) check. Students found to have certain criminal convictions or pending criminal actions will be presumed ineligible to participate in such activities. The college is authorized by the Commonwealth’s Criminal History Systems Board, pursuant to Massachusetts General Laws, Chapter 6, Sections 167-178B, to access CORI records. The college shall refer to regulations issued by the Commonwealth’s Executive Office of Health and Human Services, 101 Code of Massachusetts Regulations 15.00-15.16, as guidance when assessing student CORI records. Sex Offender checks shall be performed pursuant to Massachusetts General Laws, Chapter 6, Sections 178C-178P. For more information regarding the college’s CORI/SORI check process, please contact the office of the Dean of Students.
DENTAL HYGIENE DEGREE PROGRAM (DHY)

Applications will be reviewed and candidates will be notified of the admissions decision by mail approximately 60 days after the deadline. The college reserves the right to return applications that are received after the posted deadline, without review. Incomplete applications will not be considered for review.

REQUIREMENTS FOR CONSIDERATION TO DHY

College Placement Testing (CPT) requirements: CPT required results are subject to change. Please contact the Advising Center at 978-630-9109 or you may contact the Admissions Office at 978-630-9110 to attend an information session.

English Requirements
Competency may be met with completion of ENG 101 College Writing I, with a grade of C+ or better, at the time of application.

Math Proficiency
Competency may be met with completion of a math course equal to MAT 126 Topics In Mathematics or higher (not MAT 140 Elements Of Mathematics I) with a grade of C+ or better. Or, the math requirement may be met through college placement testing. Math placement testing is permitted for program acceptance; however, students may be required to complete MAT 126 or higher for degree completion. Math requirement may not be older than ten years.

Science Requirements
BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II with grades of C+ or better, completed no more than ten years prior to the program’s application deadline.

Applicants must submit the following to the Admissions Office

• A completed DHY admissions application (available through the Admissions Office (http://mwcc.edu/admissions/apply-to-mwcc/)).
• High School Diploma or Equivalency requirement as described in the College’s general admissions requirements.
• Official college transcripts (if applicable) from all colleges other than MWCC. Official transcripts are not required for courses completed at MWCC. Transfer credits for education completed outside of the U.S. must be evaluated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)). Note: Transfer credits must be completed at an accredited college and official transcripts must be received thirty days prior to deadline for processing. Photocopies will not be reviewed or accepted. Transcripts that have not been processed for transfer credits will not be used in the ranking process.
• Documentation demonstrating that all minimum requirements for consideration have been met.
• Letters of recommendation are not required.

SPECIAL PROGRAM REQUIREMENTS FOR DHY

PLEASE NOTE THAT THE FOLLOWING INFORMATION MUST BE RECEIVED BEFORE COURSES BEGIN:

• Health examination conducted within 2 years of the fall startup date by a licensed healthcare provider.
• Proof of current immunizations (Annual PPD or chest x-ray within 1 year, Measles, Mumps and Rubella: series of 2 or a positive antibody titre, Hepatitis B: series of 3 and a positive antibody titre for Hepatitis B, Tetanus, Diphtheria, Pertussis (Tdap) within 10 years, Chicken Pox: 2 vaccines or a positive antibody titre, Influenza vaccine (in season), or if required by the clinical facility) must be provided to the health services office. Contact the health services office at 978-630-9136, for more information.
• Liability insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.
• All dental hygiene students must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.
• Current CPR Certification (Professional Rescuer or Healthcare Provider) is required. A certificate of completion must be presented to the health sciences department prior to entry into dental hygiene courses.
• Students will be taking all program specific coursework at the Fitchburg Campus. Some clinicals will be provided off campus at sites within the region; all students will be expected to complete clinical rotations on and off site.
- Clinical sites may require the student obtain certain background checks (state/federal criminal or sexual offender), finger printing and/or drug testing before participating in the clinical experience. Costs for these reviews will be the responsibility of the student.
- Prior to the start of classes, students will be required to pay approximately $3,000 for uniforms and equipment.

**CORI/SORI Policy for DHY**

*(See the DHY application packet for more information)*

Dental Hygiene students will be required to complete a CORI (Criminal Offender Record Information) check consistent with current Commonwealth of Massachusetts law M.G.L. c. §§ 178C-178P. Record storage and usage will be in compliance with M.G.L.c. 275 § 4. It must be understood that a conviction in a court of law may prevent a person’s eligibility from being placed in a clinical agency. This then will not allow successful completion of the Dental Hygiene program. In addition, it will delay and may prohibit eligibility to take the Dental Hygiene Board Licensing Exam.

Please contact the MWCC Office of Admissions at 978-630-9110 or at admissions@mwcc.edu for more information, to obtain an application, or to attend an information session for this program.
NURSING PROGRAMS (NU, NUE, NUP, AND PN)

MWCC offers multiple Nursing program options: the Nursing Degree (day and evening), the LPN to ADN Bridge program (for current licensed LPNs), and the Practical Nursing Certificate. The college may return completed applications received after the posted application deadline without review. Prior to the start of classes, nursing students will be required to pay approximately $300 for uniforms and equipment and attend a mandatory orientation/welcome session.

NURSING DEGREE-DAY (NU) AND EVENING (NUE)
(Selective)

Applicants must be 18 years of age prior to the start of classes. Applications will be reviewed and candidates will be notified of the admissions decision by mail approximately 60 days after the application deadline.

Requirements for Consideration to NU or NUE

ATI TEST OF ESSENTIAL ACADEMIC SKILLS (ATI TEAS)

Successful passage of the ATI TEAS examination is a requirement for admission to the Associate Degree in Nursing and the Practical Nursing Certificate programs. MWCC has set the following standards on ATI TEAS scores for admission to improve the success of students in completing the program and obtaining licensure and certification.

<table>
<thead>
<tr>
<th>Program</th>
<th>Composite Score</th>
<th>Math</th>
<th>Science</th>
<th>English</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN/LPN Bridge</td>
<td>n/a</td>
<td>63.3%</td>
<td>45.8%</td>
<td>60.0%</td>
<td>69.0%</td>
</tr>
<tr>
<td>Practical Nursing</td>
<td>n/a</td>
<td>50%</td>
<td>35.4%</td>
<td>53.3%</td>
<td>54.8%</td>
</tr>
</tbody>
</table>

MWCC strongly recommends that applicants complete program prerequisite courses, especially ENG 101 College Writing I, math, and a four-credit lab science before taking the ATI TEAS Test to enhance their knowledge base. ATI TEAS results are only valid if completed within three years of the program's application deadline. There is a test fee that must be paid to ATI Testing. The fee is non-refundable and not transferable. Students are allowed to take the ATI TEAS test three times within 365 days. Students must re-take sections of the exam which they did not pass. No exceptions will be allowed. Students who want to retest must register for a test date and pay the test fee at ATI (http://www.atitesting.com).

Students must register for the ATI TEAS online at ATI (http://www.atitesting.com). Policies regarding canceling and rescheduling are determined by ATI. A student must cancel or reschedule 48 hours prior to the testing session.

COLLEGE PLACEMENT TESTING REQUIREMENTS

CPT required results are subject to change. Please contact the Advising Center 978-630-9109 or you may contact the Admissions Office 978-630-9110 to attend an information session.

ENGLISH REQUIREMENT

Students are strongly urged to have completed ENG 101 College Writing I, with a grade of C+ or better, at the time of application.

MATH PROFICIENCY

Competency for admission may be met with completion of a math course equal to MAT 143 Statistics or higher (not MAT 140 Elements Of Mathematics I) with a grade of C+ or better, completed no more than ten years prior to the program's application deadline; or through college placement testing. If math competency for admission to the program is met through placement testing, a math course will still be required to graduate from the program. Consult the specific program requirements or attend an information session for additional information.

SCIENCE REQUIREMENT

Completion of a four-credit lab science (BIO 152 Essentials of Anatomy and Physiology or BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II are preferred) with a grade of C+ or better, completed no more than ten years prior to the program's application deadline. High school courses may be considered on a case-by-case basis for purposes of admission.
APPLICANTS MUST SUBMIT THE FOLLOWING TO THE MWCC ADMISSIONS OFFICE:

- A completed ADN (NU, NUE, NUP) admissions application (available through the Admissions Office (http://mwcc.edu/admissions/apply-to-mwcc/)).
- Satisfaction of high school diploma or equivalency requirement as described in the college's general admissions requirements. If high school or equivalent was completed outside of the U.S., credentials must be evaluated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)).
- Official transcripts of all college-level courses completed at colleges other than MWCC. Transfer credits for education completed outside of the U.S. must be evaluated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)).
- Documentation demonstrating that all minimum requirements for consideration have been met.
- Test of English as a Foreign Language (TOEFL) scores, if applicable.

LPN BRIDGE OPTION (NUP)
(Selective)

Applicants must have a current license as a practical nurse in good standing, with one year of work experience, and must meet all the same requirements as those of the Nursing Degree. In addition, applicants must have successfully completed BIO 203 Anatomy and Physiology I (formerly BIO 199) with a C+ or better, ENG 101 College Writing I, and PSY 105 Introduction To Psychology.

Students are strongly urged also to have successfully completed BIO 204 Anatomy and Physiology II, BIO 205 Microbiology (with grades of C+ or better), ENG 102 College Writing II, PSY 110 Human Growth And Development, and SOC 103 Introduction To Sociology at the time of application. Further details are outlined in the program application, which is available through the Admissions Office (http://mwcc.edu/admissions/).

Applications will be reviewed and candidates will be notified of the admissions decision by mail approximately 60 days after the deadline. The college may return completed applications received after the posted deadline without review.

PRACTICAL NURSING CERTIFICATE (PN)
(Selective)

Applicants must be 18 years of age prior to the start of classes. Applications will be reviewed and candidates will be notified of the admissions decision by mail approximately 60 days after the deadline. The college may return completed applications received after the posted deadline without review.

Requirements for Consideration to PN

COLLEGE PLACEMENT TESTING REQUIREMENTS

CPT required results are subject to change. Please contact the Advising Center at 978-630-9109 or you may contact the Admissions Office at 978-630-9110 to attend an information session.

ENGLISH REQUIREMENT

Students are strongly urged to have successfully completed ENG 101 College Writing I, with a grade of C+ or better, at the time of application.

MATH PROFICIENCY

Competency may be met with successful completion of a math course equal to MAT 126 Topics In Mathematics or higher (not MAT 140 Elements Of Mathematics I) with a grade of C+ or better or through college placement testing. If math competency for admission to the program is met through placement testing, a math course will still be required to graduate from the program.

APPLICANTS MUST SUBMIT THE FOLLOWING TO THE MWCC ADMISSIONS OFFICE

- A completed PN admissions application (available through the Admissions Office (http://mwcc.edu/admissions/apply-to-mwcc/)).
- Satisfaction of high school diploma or equivalency requirement as described in the college's general admissions requirements. If high school or equivalent was completed outside of the U.S., credentials must be evaluated for
equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)).

- Official transcripts of all college-level courses completed at colleges other than MWCC. Official transcripts are not required for courses completed at MWCC. Transfer credits for education completed outside of the U.S. must be evaluated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)).
- Documentation demonstrating that all minimum requirements for consideration have been met.
- Test of English as a Foreign Language (TOEFL) scores, if applicable.

Special Program Requirements for NU, NUE, and PN

Please note that the following information must be received before courses begin:

- Health examination conducted within the past two years by a licensed health care provider.
- Proof of current immunizations (Annual PPD or chest x-ray within 1 year, Measles, Mumps and Rubella: series of 2 or a positive antibody titre, Hepatitis B: series of 3 and a positive antibody titre for Hepatitis B, Tetanus, Diphtheria, Pertussis (Tdap) within 10 years, Chicken Pox: 2 vaccines or a positive antibody titre, Influenza vaccine (in season), or if required by the clinical facility) must be provided to the Health Services Office. Contact the Health Services Office at 978-630-9136, for more information.
- Liability Insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.
- CPR Certification (Healthcare Provider) is required. A certificate of completion must be presented to the nursing department prior to entry into nursing courses.
- All nursing students must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.
- Clinical sites may require the student obtain certain background checks (state/federal criminal or sexual offender), finger printing and/or drug testing before participating in the clinical experience. Costs for these reviews will be http://www.mass.gov/eohhs/docs/dph/quality/boards/good-moral-info.pdf the responsibility of the student.

Readmission Policy for NU, NUE, LPN, and PN

Mount Wachusett Community College reserves the right to limit the number of readmissions each academic year. Readmission to the nursing program is not guaranteed and is on a space available basis. Readmission to the programs will require a one-time successful attempt at a readmission examination with a grade of 77 percent or higher. A student seeking readmission to the nursing programs must follow the application procedure for new students. Students are limited to two admissions to a nursing program, (ADN and the LPN to ADN Bridge is considered one program). Emergency medical conditions will be considered on an individual basis and will require documentation from a physician. Admission to the nursing programs is selective and the admissions committee reserves the right to deny readmission to any applicant. The respective programs reserve the right to refuse readmission based on, but not limited to, unprofessional behavior, unethical conduct, and client safety issues.

CORI/SORI Policy for Nursing Programs

(See the Nursing application packet for more information)

Compliance with licensure laws in the state of Massachusetts requires all NCLEX-RN and NCLEX-PN applicants to furnish satisfactory proof of “good moral character” (M.G.L. Chapter 112, Sections 74 and 74A). Nursing students will be required to complete a CORI (Criminal Offender Record Information) check. It must be understood that a conviction in a court of law may prevent them from being placed in a clinical agency. This then will not allow successful completion of the Nursing program. In addition, it will delay and may prohibit their eligibility to take the NCLEX-RN or NCLEX-PN.

Individuals requiring CORI checks must also have Sexual Offender Records Information (SORI) checks completed as well, consistent with current Commonwealth of Massachusetts law MGLC 178-C-178P. Record storage and usage will be in compliance with college procedures depending on the result of a CORI or SORI check, as a person’s eligibility in the nursing programs may be affected.

Applicants for initial Massachusetts nurses licensure must report felonies and misdemeanor convictions and disciplinary action to the Board of Registration in Nursing for its evaluation of the applicant’s compliance with the Good Moral Character requirement at GL, c.112, 22.74 and 74A. For details, refer to the Good Moral Character Information Sheet (http://www.mass.gov/eohhs/docs/dph/quality/boards/good-moral-info.pdf).
Please contact the MWCC Office of Admissions at 978-630-9110 or at admissions@mwcc.edu for more information, to obtain an application, or to attend an information session for any MWCC nursing program.
PARAMEDIC TECHNOLOGY (PAC)
(Selective 1)

The paramedic technology certificate program will be offered at the Gardner campus in an evening format with occasional Saturdays.

This selective enrollment program requires additional application components. The selection process is competitive; applications will be considered until all seats are filled. (See Special Program Requirements for Paramedic Technology Certificate below.)

REQUIREMENTS FOR CONSIDERATION TO PARAMEDIC TECHNOLOGY CERTIFICATE (PAC)

All applicants must have evidence of current Basic and/or Advanced EMT certification, a minimum of one year of work experience or 75 documented patient contacts as a certified Basic or Advanced EMT. See the Special Program Requirements for Paramedic Technology Certificate (below) and/or the Paramedic Technology Certificate application (http://mwcc.edu/admissions/selective/) for complete details.

STUDENT SUCCESS TIPS

Because of an extensive classroom/clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning paramedic courses. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

SPECIAL PROGRAM REQUIREMENTS FOR PARAMEDIC TECHNOLOGY CERTIFICATE (PAC)

Please note that the following information must be received before courses begin:

- Health examination conducted within the past two years by a licensed healthcare provider.

- Proof of current immunizations (Annual PPD or chest x-ray within 1 year, Measles, Mumps and Rubella: series of 2 or a positive antibody titre, Hepatitis B: series of 3 and a positive antibody titre for Hepatitis B, Tetanus, Diphtheria, Pertussis (Tdap) within 10 years, Chicken Pox: 2 vaccines or a positive antibody titre, Influenza vaccine (in season), or if required by the clinical facility) must be provided to the health services office. Contact the Health Services office at 978-630-9136, for more information.

- Liability insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.

- CPR Certification (Healthcare Provider) is required. A certificate of completion must be presented to the program coordinator prior to entry into courses.

- All paramedic technology students must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.

- As part of the coursework in the paramedic technology certificate program, students are required to complete practical hours in clinical facilities working with patients under the supervision of licensed providers. Clinical sites require that students obtain certain background checks (state/federal criminal or sexual offender) and/or drug testing before beginning their clinical work. Costs for certain background checks and drug testing are the responsibility of the student. Refusing to participate in these background checks or drug testing will result in the student's inability to progress in the program. A positive background check or drug test may also result in the inability to progress in the program. The criminal background check may also be required for future employment and/or licensure and/or certification. The prospective student is encouraged to discuss any concerns with the program director prior to acceptance into the paramedic technology certificate (PAC) program. This information is given to you now to forewarn you of the potential additional cost and responsibilities. All screenings and background checks are completed AFTER admission/acceptance into the PAC program.
CORI/SORI POLICY FOR PARAMEDIC TECHNOLOGY CERTIFICATE (PAC)

(See the PAC application for more information)

Students will be required to complete a CORI (Criminal Offender Record Information) check. It must be understood that a conviction in a court of law may prevent students from being placed in a clinical agency. This then will not allow successful completion of the PAC program. In addition, it will delay and may prohibit eligibility to take respective state's paramedic licensure exam.

Please contact the MWCC Office of Admissions at 978-630-9110 or at admissions@mwcc.edu for more information, to obtain an application, or to attend an information session for this program.

1 The Mount Wachusett Community College Paramedic program has been issued a Letter of Review by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP Executive Office). This letter is NOT a CAAHEP accreditation status, it is a status signifying that a program seeking initial accreditation has demonstrated sufficient compliance with the accreditation Standards through the Letter of Review Self Study Report (LSSR) and other documentation. Letter of Review is recognized by the National Registry of Emergency Medical Technicians (NREMT) for eligibility to take the NREMT's Paramedic credentialing examination(s). However, it is NOT a guarantee of eventual accreditation.

To contact CoAEMSP Executive Office:

8301 Lakeview Parkway Suite 111-312
Rowlett, TX 75088
214-703-8445
FAX 214-703-8992
http://www.coaemsp.org/

MWCC is fully accredited by the Department of Public Health Massachusetts Office of Emergency Medical Services as an advanced training institute.
PHYSICAL THERAPIST ASSISTANT DEGREE (PTA) (DAY ONLY)

This program is located at the MWCC Gardner Campus.

Applications will be reviewed and candidates will be notified of the admissions decision by mail approximately 60 days after the deadline. The college may return applications received after the deadline without review. Incomplete applications will not be reviewed.

REQUIREMENTS FOR CONSIDERATION TO PTA

College Placement Testing (CPT) requirements - CPT required results are subject to change. Please contact the Advising Center at 978-630-9109 or you may contact the Admissions Office at 978-630-9110 to attend an information session.

English Requirement - Students are strongly encouraged to have completed ENG 101 College Writing I with a grade of C+ or better, at the time of application.

Math Proficiency - Competency may be met with completion of a math course equal to MAT 143 Statistics or higher (not MAT 140 Elements Of Mathematics I) with a grade of C+ or better, or through college placement testing out of MAT 143. Math requirement may not be older than 10 years.

Science Requirement - Completion of a four-credit human biological lab science with a grade of C+ or better, completed no more than ten years prior to the program's application deadline (BIO 152 Essentials of Anatomy and Physiology is preferred or BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II for those applicants who will eventually continue their education in a Bachelor's Degree program).

Applicants must submit the following to the MWCC Admissions Office:

- A completed PTA admissions application (Available through the Admissions Office (http://mwcc.edu/admissions/apply-to-mwcc/).
- High School Diploma or Equivalency requirement as described in the College's general admissions requirements.
- Official transcripts of all college-level courses completed at all colleges other than MWCC. Official transcripts are not required for courses completed at MWCC. Transfer credits for education completed outside of the U.S. must be evaluated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)). Transfer credits must be completed at a regionally accredited college and official transcripts must be received thirty days prior to the application deadline for processing. Photocopies will not be reviewed or accepted. Transcripts that have not been processed for transfer credits will not be used in the ranking process.
- Documentation demonstrating that all minimum requirements for consideration have been met.

Special Program Requirements PTA:

Please note that the following information must be received before courses begin:

- Health examination conducted within the past two years by a licensed health care provider (Must be submitted on the MWCC Health Form).
- Proof of current immunizations: Two doses of Measles, Mumps and Rubella (MMRs), or positive titre to prove immunity; three doses of Hepatitis B vaccine and a positive titre to prove immunity; one dose of Tetanus, Diphtheria, Pertussis (Tdap) within 10 years; two doses of Chicken Pox, or positive titre to prove immunity; two step negative PPD or TB spot test, if positive PPD then negative chest x-ray and annual TB questionnaire; influenza vaccine (in season); please submit all to the Health Services Office (978-630-9136).
- Liability insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.
- Current CPR Certification (Professional Rescuer or Healthcare Provider) is required. A certificate of completion must be presented to the health sciences department prior to entry into PTA courses.
- All students in selective majors must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.
• Clinical sites may require the student obtain certain background checks (state/federal criminal or sexual offender), finger printing and/or drug testing before participating in the clinical experience. Costs for these reviews will be the responsibility of the student.

Matriculating PTA students are allowed to readmit to retake a PTA core course (courses with PTA prefix) one time only. In the event that the course is not passed with a 77 or better grade on the second attempt, the student will be withdrawn from the PTA program without the opportunity for readmission at a later date.

**CORI/SORI Policy for the PTA Degree**

*(See the PTA application packet for more information)*

Physical Therapy Assistant students will be required to complete a CORI (Criminal Offender Record Information) check. It must be understood that a conviction in a court of law may prevent them from being placed in a clinical agency. This then will not allow successful completion of the PTA program. In addition, it will delay and may prohibit eligibility to take their respective state’s PTA licensure examination.

Please contact the MWCC Office of Admissions at 978-630-9110 or at admissions@mwcc.edu for more information, to obtain an application, or to attend an information session for this program.
VETERINARY TECHNOLOGY (VTE)
(SELECTIVE)

Math Proficiency
Competency for admission may be met by placing into MAT162. Consult the specific program requirements or attend an information session for additional information.

Science Requirement
The biology requirement may be met by completion or transfer of an equivalent course to BIO 109 Biology I or BIO 113 Life Science for Allied Health (formerly BIO 099) with a grade of C+ or better, completed no more than ten years prior to the program’s application deadline. High school courses may meet the biology requirement and will be considered on a case-by-case basis. Alternatively, the biology requirement may be met through a competency test. Please note, this fulfills the science requirement for Admissions purposes only; not meant to satisfy pre-requisite requirements for individual courses within the degree.

English Requirement
Students are required to take the College Placement Test (CPT) and place into English 101. Information about the content of the College Placement Test (CPT) and how to review for the test can be found at MWCC Testing Services (http://mwcc.edu/testing/). Students may also call 978-630-9244 for this information. Students with a documented disability who need accommodations should contact the Coordinator of Disability Services at 978-630-9330 before scheduling a placement test.

Applicants must submit the following to the Admissions Office:
- A completed Veterinary Technology admission application (available through the MWCC Admissions Office (http://mwcc.edu/admissions/apply-to-mwcc/)).
- Satisfaction of high school diploma or equivalency requirement as described in the college's general admissions requirements.
- Documentation demonstrating that all minimum requirements for consideration have been met.
- Official transcripts of all college-level courses completed at colleges other than MWCC. Transfer credits for education completed outside of the U.S. must be evaluated and translated for equivalency by an approved agency. Agencies may be found at the National Association of Credential Evaluation Services (NACES (http://www.naces.org)).
- Test of English as a Foreign Language (TOEFL) scores, if applicable.

SPECIAL PROGRAM REQUIREMENTS FOR VTE

PLEASE NOTE THAT THE FOLLOWING INFORMATION MUST BE RECEIVED IMMEDIATELY AFTER ACCEPTANCE TO THE VETERINARY TECHNOLOGY PROGRAM AND BEFORE COURSES BEGIN:
- Health examination conducted within the past two years by a licensed health care provider.
- Proof of current immunizations (Pertussis (Tdap), Measles, Mumps, Rubella, Tetanus, Hepatitis B: Series of 3, Chicken Pox: Series of 2, or a history of infection) must be provided to the Health Services Office. Contact the Health Services Offices at 978-630-9136.
- Liability Insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.
- CPR Certification (Healthcare Provider) is required. A certificate of completion must be presented to the Department Chair prior to start of VTE externships.
- All students must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.
- The rabies vaccine is not required of MWCC’s VTE students. However, a rabies infection is extremely serious, if not deadly. For this reason, all MWCC VTE students are encouraged to receive the rabies vaccination series.
**CORI/SORI Policy for VTE**

Compliance with licensure laws in the state of Massachusetts requires all applicants to furnish satisfactory proof of “good moral character” (M.G.L. Chapter 112, Sections 74 and 74A). Students will be required to complete a CORI (Criminal Offender Record Information) check. It must be understood that a conviction in a court of law may prevent students from being placed in a clinical agency. This then will not allow successful completion of the Veterinary Technology program. In addition, it will delay and may prohibit eligibility to take the Veterinary Technician National Exam (VTNE).

Individuals requiring CORI checks must also have Sexual Offender Records Information (SORI) checks completed as well, consistent with current Commonwealth of Massachusetts law MGLC 178-C-178P. Record storage and usage will be in compliance with college procedures depending on the result of a CORI or SORI check, as a person’s eligibility in the program may be affected.

Please contact the MWCC Office of Admissions at 978-630-9110 or at admissions@mwcc.edu for more information, to obtain an application, or to attend an information session for the Veterinary Technology program.
# COST OF ATTENDANCE

*Note: Tuition and fees are subject to change without notice.*

## DAY STATE-SUPPORTED COURSES

**MASSACHUSETTS RESIDENTS**

<table>
<thead>
<tr>
<th></th>
<th>Summer 2020</th>
<th>Fall 2020 onward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>College fees per credit hour</td>
<td>$197.00</td>
<td>$197.00</td>
</tr>
<tr>
<td>Total per credit hour</td>
<td>$222.00</td>
<td>$222.00</td>
</tr>
</tbody>
</table>

1 Massachusetts resident students are defined as a U.S. citizen or resident alien who has lived in the Commonwealth of Massachusetts for at least six continuous months preceding the beginning date of the academic period for which he/she seeks to enroll. All International students attending this college with a student visa must pay non-resident tuition.

**NEW ENGLAND REGIONAL STUDENT PROGRAM (SEE NEW ENGLAND REGIONAL STUDENT PROGRAM (P. 24))**

<table>
<thead>
<tr>
<th></th>
<th>Summer 2020</th>
<th>Fall 2020 onward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$37.50</td>
<td>$37.50</td>
</tr>
<tr>
<td>College fees per credit hour</td>
<td>$197.00</td>
<td>$197.00</td>
</tr>
<tr>
<td>Total per credit hour</td>
<td>$234.50</td>
<td>$234.50</td>
</tr>
</tbody>
</table>

## NON-RESIDENT & INTERNATIONAL STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Summer 2020</th>
<th>Fall 2020 onward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$230.00</td>
<td>$230.00</td>
</tr>
<tr>
<td>College fees per credit hour</td>
<td>$197.00</td>
<td>$197.00</td>
</tr>
<tr>
<td>Total per credit hour</td>
<td>$427.00</td>
<td>$427.00</td>
</tr>
</tbody>
</table>

## NON-STATE SUPPORTED COURSES

*(Includes some day courses, most WEB courses, and most courses offered at Leominster, Devens, Fitchburg Campuses and Off Campus)*

<table>
<thead>
<tr>
<th></th>
<th>Summer 2020</th>
<th>Fall 2020 onward</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>College fees per credit hour</td>
<td>$197.00</td>
<td>$197.00</td>
</tr>
<tr>
<td>Total per credit hour</td>
<td>$222.00</td>
<td>$222.00</td>
</tr>
</tbody>
</table>

## TUITION AND FEES FOR AUDITING COURSES

If a student chooses to audit a course they will be charged tuition and fees based on their residency status and the above rates.
**PROGRAM FEES**

In addition to the regular tuition and college fees, several programs are charged program fees. See below for your program.

<table>
<thead>
<tr>
<th>Program</th>
<th>Fee Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive Technology Certificate and Degree (ATC &amp; ATD)</td>
<td>$3,550 first semester charge (mandatory automotive tool kit)</td>
</tr>
<tr>
<td>Dental Assisting Certificate (DAC)</td>
<td>$350 per semester, $450 exam fee for DAC 115</td>
</tr>
<tr>
<td>Dental Hygiene Degree</td>
<td>$2,225 per semester</td>
</tr>
<tr>
<td>Emergency Medical Technical Training (XEMT)</td>
<td>$55 certification exam administration fee upon successful completion of HCC 111, HCC 112. (See program sheet for a complete list of exam fees.)</td>
</tr>
<tr>
<td>Medical Assisting Degree (MAS)</td>
<td>$125 for exam fee for MAS 240</td>
</tr>
<tr>
<td>Medical Office Certificate (MOC)</td>
<td>$117 for exam fee for MAS 211</td>
</tr>
<tr>
<td>Nursing Degree -- LPN Bridge (NUP)</td>
<td>$1,100 per semester (excluding the first spring semester when enrolled in NUR 116)</td>
</tr>
<tr>
<td>Nursing Degree -- Day (NU)</td>
<td>$850 per semester</td>
</tr>
<tr>
<td>Nursing Degree -- Evening (NUE)</td>
<td>$850 per semester</td>
</tr>
<tr>
<td>Paramedic Technology Certificate (PAC)</td>
<td>$1,100 per semester</td>
</tr>
<tr>
<td>Phlebotomy Training (XPLB)</td>
<td>$150 for site fee for PLB 203</td>
</tr>
<tr>
<td>Physical Therapist Assistant Degree (PTA)</td>
<td>$262 Membership and Materials for PTA 103, $104 Membership for PTA 114</td>
</tr>
<tr>
<td>Practical Nursing Certificate (PN)</td>
<td>$1,100 per semester</td>
</tr>
<tr>
<td>Study Abroad</td>
<td>HUM 290 has variable costs depending on the destination and length of stay. See <a href="https://www.mwcc.edu/academics/study-abroad">https://www.mwcc.edu/academics/study-abroad</a> (<a href="https://www.mwcc.edu/academics/study-abroad/">https://www.mwcc.edu/academics/study-abroad/</a>). Please note that this course is exempt from refund policies. Fees associated with registering are non-refundable.</td>
</tr>
<tr>
<td>Veterinary Technology Degree (VTE)</td>
<td>$850 per semester</td>
</tr>
</tbody>
</table>

**ADDITIONAL EXPENSES—ALL STUDENTS**

<table>
<thead>
<tr>
<th>Expense</th>
<th>Fee Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration fee</td>
<td>$50.00 per semester</td>
</tr>
<tr>
<td>Technology access fee (1-8 credits)</td>
<td>$75.00 per semester</td>
</tr>
<tr>
<td>Technology access fee (9+ credits)</td>
<td>$100.00 per semester</td>
</tr>
<tr>
<td>Health insurance&lt;sup&gt;2&lt;/sup&gt;</td>
<td>TBD (September 1, 2020 – August 31, 2021)</td>
</tr>
<tr>
<td>Health insurance&lt;sup&gt;2&lt;/sup&gt;</td>
<td>TBD (January 1, 2021 – August 31, 2021, for spring semester students entering in January)</td>
</tr>
<tr>
<td>LEM (laboratory, equipment, and materials fee)&lt;sup&gt;3&lt;/sup&gt;</td>
<td>$10.00 per credit for laboratory and other equipment-intensive courses</td>
</tr>
<tr>
<td>Liability insurance&lt;sup&gt;4&lt;/sup&gt;</td>
<td>$15 per specified course</td>
</tr>
<tr>
<td>Student activity fee</td>
<td>$20.00 per semester for students taking nine credits or more per semester</td>
</tr>
</tbody>
</table>
State law mandates that students (with nine credits or more per semester) carry health insurance if not currently insured. There is a mandatory basic plan insurance charge for all students enrolled in nine or more credits. A student who has adequate medical coverage may request a waiver by going to Gallagher Student Health Plans (https://www.gallagherstudent.com/students/student-home.php?idField=1198/). Free care is not considered adequate medical coverage. The cost for this plan is set by a committee representing all Massachusetts community colleges and is subject to change annually. The fees listed above are the 2017-18 rates.

LEM (laboratory, equipment and materials) fee applies to all courses with prefixes: ACC 227 Computerized Accounting, AQS, ART, AUT, BIO (except BIO 101 Introduction To Nutrition (formerly NUT101), BIO 103 Human Health And Disease and BIO 113 Life Science for Allied Health (formerly BIO 099)), CAD, BTC, CET, CHE, CIS, CIU 110 Introduction To Criminalistics (formerly CJU 234), EAS, EGM 105 Introduction to Energy Management Principles, EGM 115 Sustainability and the Built Environment, EGM 125 Energy Analysis And Auditing, EGM 220 Heating And Cooling Systems, EGM 280 Sustainable Building Operations And Maintenance, EET, EKG, EOA 106 Keyboarding, EOA 107 Word Processing Applications, EOA 110, FST, GID, HCC, HEA 115 Nurse Assistant Theory, HEA 116 Nurse Assistant Practicum, HEA 117 Acute Care CNA Training, HEA 118 Home Health Aide, HIM, MAS (except MAS 102 Medical Terminology), MET, MLT, MRT, MTC, PHY, PLB, PLT, PTA, VET and to all courses with a campus code "WEB".

Liability insurance applies to the following courses: CED 203, CJU 252, ECE 114, ECE 124, EGM 290, EKG 101, EOA 180, HEA 116, HIM 103, HIM 200, HST 250, ISC 220, LAW 265, MAS 207, MAS 211, MAS 250, MLT 103, MLT 220, NRD 220, PLB 101, PLB 203, PHE 250, PTA 103, PTA 114, VTE 110, VTE 210, VTE 215, VTE 216, VTE 220 AND VTE 225.

**CANCELLATION FOR NON-PAYMENT OF CHARGES**

Payment of all charges is due in full by the due date specified on the student bill. Students whose accounts have not been paid in full, or otherwise cleared through commitments by other sources, will be subject to cancelation of class enrollment. Students will not be allowed to re-enroll without proper payment.

**PAYMENT OPTIONS**

The College accepts payment of tuition and fees by cash, check, money order, Discover, Visa, and MasterCard. A monthly payment plan is also administered by the FACTS/NELNET Co. financial aid, scholarships, waivers and third party payments are also means available to satisfy payment of the applicable tuition and fees.

**Credit Cards**

Students may use MasterCard, VISA or Discover to pay their tuition and fees. If using a credit card, please go online and log in to your iConnect account. Click on the "Pay My Bill/Waive Insurance" tab and then choose Make a Payment (full or partial).

**Payment Plan**

Students may enroll in a monthly payment plan administered by FACTS/NELNET. A modest enrollment fee is charged but no interest is charged. This option is only available for the fall and spring full semesters. Details on the plan can be found at this link (http://mycollegepaymentplan.com/mwcc/).

**Third Party Payment**

Occasionally a student’s employer or outside agency will satisfy all or part of their obligation to the college. Under these circumstances, authorization from the company or agency is required in order to stop cancelation of classes for non-payment. Please contact MWCC Student Accounts at 978-630-9149 with any questions or to submit proper documentation. Students may be required to pay for the course in order to continue if all requirements are not met.

**Waivers, Scholarships and Financial Aid**

Tuition waivers (for example: senior citizen tuition waivers, veterans waivers, and state-contract driven employee benefits) are required to be submitted to MWCC Student Accounts prior to start of classes. Students without documentation may have their classes canceled for non-payment.

**Refund Options**

MWCC has partnered with BankMobile to deliver refunds. For more information regarding refunds, please click here (http://mwcc.edu/accounts/refund/).
REFUND POLICY

In the case of withdrawal, an official withdrawal form must be completed.

Credit Courses

The college refund policy for tuition and other fees is as follows (this policy is subject to change without notice):

| Administrative withdrawal due to non-attendance (failure to participate for online courses) | 50% |
| Prior to the classes starting | 100% |
| Through the first week of classes | 100% |
| During the second week of classes | 50% (excluding reg. fee & info. tech. fee) |
| After the second week of classes | 0% |
| If a class is canceled by the college | 100% tuition and fees |

Prior to the start of each semester, the MWCC Records Office publishes the academic calendar (http://mwcc.edu/academic/academic-calendar/), which includes the exact dates that define this refund policy. Student financial assistance recipients will have their refunds calculated according to applicable federal regulations for sessions of eight weeks or less (including all summer courses); each class will be considered to be one week for the refund calculation above. Weekend courses, intersession courses, modular courses, distance learning courses (excluding WEB courses), telecourses, cooperative education, and other non-standard length courses have a special refund policy. Please contact the MWCC Records Office for detailed information.

Please note: HUM 290 Travel and Study: International Culture, Philosophy, and Arts is exempt from the above refund policies.

All fees are non-refundable after registration, unless the course is canceled by the college.

Noncredit Courses

| Prior to seven days before first class meeting | 100% refund |
| After first class | 0% refund |

SENIOR CITIZEN AND MASSACHUSETTS TUITION/FEE WAIVERS

A. Students 60 years and older and who are Massachusetts residents for at least one year are eligible for waiver of credit based tuition and fees on a space available basis. Eligible senior citizens may not register for classes until one week prior to the start of classes, if space is available, to take advantage of the senior citizen tuition and fee waiver. Individuals registering prior to that time will be expected to pay all applicable tuition and fees. Please call MWCC Student Accounts for further information at 978-630-9149.

B. The Massachusetts legislature has approved a number of tuition waiver programs, Categorical Tuition Waivers, for individuals meeting certain criteria. These waivers include the Veterans Tuition Waiver, the Massachusetts National Guard Tuition and Fee Assistance Program, the Massachusetts Rehabilitation Client Waiver, the Native American Waiver, and others. Eligible individuals must present proof of eligibility to receive a tuition waiver of state-supported tuition (classes with a billing attribute of B100). Fees and non-state supported tuition will only be waived when the enabling legislation calls for such action.

C. Eligibility requirements include the following criteria: Be accepted to a degree or certificate program; be enrolled in at least three credits per semester; be making satisfactory academic progress; be a permanent legal resident of Massachusetts for at least one year; be a US citizen or eligible non-citizen; not be in default of a student loan; be in compliance with Selective Service laws. Auditing classes and enrolling in classes that are not required by the student’s degree program will not be covered by these waivers.

UNPAID DEBT POLICY

It is MWCC’s policy that students or former students having any unpaid obligations for tuition or any fees due the college and who have not made acceptable arrangements for settlement of such obligations, will be subject to the withholding of any grades, grade reports, transcripts, diplomas and certificates, and will not be eligible to enroll in any course or program of the college until satisfactory settlement of unpaid debts. Students will incur all costs of collection if the college must place their accounts with a collection agency and with the Commonwealth of Massachusetts for intercept of other state payments (tax refunds, etc.). All receipts
for payment must be issued in the student’s name, regardless of who is paying the bill. Former students who have a current student loan default will be subject to the same prohibitions.

**FINANCIAL AID**

**THE FINANCIAL AID PROCESS**

Several federal, state, and college financial aid programs are available to MWCC students. Grants and scholarships are free financial assistance programs available for low income individuals. Low interest student loans may be borrowed by most students.

Students should apply for financial aid as soon as college attendance is contemplated. The absolute deadline for the MASSGrant program is May 1. The priority deadline for campus aid packages, including Pell Grant and loans, is April 1 for September enrollment and November 1 for January enrollment. Applications completed after those dates will be reviewed, but students may not receive the same level of aid and the determination of eligibility may not occur prior to the tuition and fee billing due date.

To be considered for financial assistance, students must demonstrate financial need and be accepted to the college in an eligible degree or certificate program (non-matriculated students are not eligible for financial aid), be a U.S. citizen or permanent resident alien, and be in compliance with all federal selective service, satisfactory progress and other applicable regulations. Most financial aid programs require half time enrollment. Limited Pell grant funding is available for students enrolled less than half time. Students must have a high school diploma or High School Equivalency. Students enrolled during high school are not eligible for financial aid.

The first step in applying for all forms of financial aid is to complete the Free Application for Federal Student Aid (FAFSA). This form is available online at www.fafsa.ed.gov (http://www.fafsa.ed.gov) and must be completed each academic year.

The financial aid process can be lengthy (three to six weeks) for all paperwork to be finalized. After completing the FAFSA, students and the college will receive a Student Aid Report (SAR) from the federal processing center.

Students may be required to complete the "verification" process to ensure the validity of the information presented on the application. Verification of income and other data may be required. Students will be notified if additional documentation is necessary.

Following the completion of all required paperwork, students will be given an award notification. Any credit balance remaining after the tuition and fee charges have been satisfied will be available for use to purchase books and supplies in the college bookstore. Once attendance in classes is verified, financial aid funds will be disbursed, and any excess credit balance will be refunded to the student via the Bank Mobile Disbursement process.

Financial aid is awarded on the basis of financial need. Need is the difference between the estimated cost of attendance and the calculated amount the student and family can reasonably be expected to provide. The student and family contribution is affected by income, assets, number of family members, and number of family members in college.

Some low-income students receive enough grant funding to cover the entire tuition and fees bill, including book expenses. Other students may receive partial grant funding and choose to borrow a student loan to cover remaining tuition, fees and book charges. At times, students will not qualify for any grant assistance but can borrow a student loan to pay for part or all of their tuition, fee, and book expenses. There are situations where the maximum student loan and other aid awards may not cover direct educational expenses.

Mount Wachusett Community College is committed to ensuring that students are able to have access to quality education while accruing as little student debt as possible. A variety of financial literacy programs are available to students to assist them with personal financial planning and the management of student loan debt. The average student debt that an MWCC student might anticipate is $11,921 at the conclusion of the associate’s degree. Approximately 55% of MWCC graduates borrow money through student loans to complete their MWCC degree.

Students who do not qualify for enough financial aid, or apply too late to determine eligibility before classes begin, will be required to satisfy the tuition and fee bill. The Student Accounts Office has an interest-free payment plan available that allows the entire or partial tuition and fee bill to be paid in monthly installments.
Special Conditions
Should a student or parent’s family situation or income change after the FAFSA has been processed, a “special condition” may exist that would warrant recalculation of financial aid eligibility. A special condition or special circumstance is a reason that would make the standard calculation inappropriate for a particular situation, but most typically results from job loss, divorce, or death of a family member. Students who experience these changes in family circumstances are encouraged to meet with a Financial Aid Counselor to request reconsideration of eligibility.

Assistance is Always Available
The financial aid process may be complex, and many times students are not familiar with the procedures and understanding of where to obtain the necessary data. The Financial Aid Office can assist students with the process at any time. Students should not hesitate to call or visit the office if they have any questions about the procedures, forms, or processing guidelines.

For More Financial Aid Information
For complete information about the federal and state student financial assistance programs available to MWCC students, stop by or call the Financial Aid Office, 978-630-9169. By applying for financial aid early, students will have more information earlier to determine the actual amount they will have available to pay for the necessary expenses.

GRANTS

Federal Pell Grant
Awards range from $606 to $6195 per year and are awarded to low income students. The amount of the award is determined by enrollment status (full or part-time) and family contribution. *

Federal Supplemental Educational Opportunity Grant (SEOG)
Pell grant recipients have preference. The awards range from $100 to $1,000 per year.

Massachusetts Part-time Grant
Award maximum is $450 per year for a student enrolled in at least six credits but less than 12 credits per semester. Recipients must be Massachusetts residents for one year and Pell Grant recipients.

MASSGrant and MASSGrant Plus
Students must meet Massachusetts residency requirements and be enrolled full-time. The awards range from $600 to $1100 per year. Eligible students will receive notification from the Massachusetts Office of Student Financial Assistance. Application deadline is May 1 prior to the academic year. This grant is limited to four semesters while enrolled at a community college.

College Assistance Grant
This is a college funded grant program available to needy students who do not receive adequate assistance from other available financial aid programs. Students must file the FAFSA and meet general financial aid eligibility criteria. Funding is limited.

MWCC Grant
Funds are awarded from the Massachusetts Cash Grant program to Massachusetts residents who maintain half-time enrollment status, and demonstrate need. The award amount cannot exceed the total cost of tuition and fees.

Tuition Waiver
Awards cannot exceed state-supported tuition charges (Tuition-Day Charge). Recipients must be Massachusetts residents for one year and demonstrate need.

* In spring of 2016, MWCC was selected to participate in the Pell for Students Who Are Incarcerated Experimental Site (Second Chance Pell) program through the U.S. Department of Education. This program provides a limited waiver of the statutory ban on individuals incarcerated in state penal institutions from receiving Federal Pell Grants to pay for post-secondary education and/or training. Starting in January of 2017, the college began offering one certificate program at each of the proposed correctional facilities: North Central Correctional Institute Gardner and Massachusetts Correctional Institute Shirley. The Second Chance Pell programs allows inmates to take courses through traditional instruction and earn the certificate in 18 months. As students, the inmates will be supported through advising, counseling and tutoring.
LOANS AND EMPLOYMENT

Emergency Student Loan Fund
These funds, made available by the Student Government Association, are available to students during the college academic year on a short-term basis for college-related expenses. Contact the Student Services office for more information about this program.

Federal Direct Loan Program
The William D. Ford Direct Student Loan is for students who do not qualify for (or receive a limited amount of) grant and scholarship aid. This is a low, variable-interest rate loan that does not have to be repaid until after enrollment ceases. Subsidized loan funds are interest-free during college enrollment; however, the interest subsidy is available for a total of 3 years for students enrolled in a two-year associate degree program. The loan range is $200 to $10,500 per year. Students must demonstrate financial need for a subsidized Direct Loan. There is also an unsubsidized Direct Loan for students who do not demonstrate financial need.

Federal Parent PLUS Loan (dependent students)
A parent of a dependent student may borrow up to the maximum cost of education minus the student’s total financial aid award.

Alternative Loan Programs
Upon request, the Financial Aid Office can provide information about alternative loan programs that offer assistance to students who do not otherwise qualify for federal loans.

Federal Work Study (FWS)
Eligible students may obtain part-time employment on or off-campus during the academic year and summer. The average award is $2,500 per academic year. The hourly wage is set at the current state minimum wage, and earnings are paid every two weeks. Off-campus employment must be with a public or private nonprofit agency and arranged with the Financial Aid Office. Community service and literacy tutoring jobs are encouraged and available through the FWS program.

MWCC FOUNDATION INC. SCHOLARSHIPS
Scholarships are forms of aid that help students pay for their education. Like grants, they do not have to be repaid and are for direct costs: tuition, fees and books. Students must be in good academic standing with the college. Awards are available for students who are interested in particular fields of study, who are members of underrepresented groups, who live in certain areas, or who demonstrate financial need.

Deadlines
Scholarship applications are accepted on an ongoing basis. However, the deadline for scholarships awarded for the upcoming fall semester is March 10 for graduating students and May 10 for continuing students.

How to Apply
Scholarship applications are online through the Award Spring icon in the iConnect portal. All scholarships require an essay and two letters of recommendation, as explained on the scholarship application.

For more information on scholarship criteria, call MWCC’s financial aid office 978-630-9169, email financialaid@mwcc.mass.edu, or visit mwcc.edu/financial (http://www.mwcc.edu/financial/).

FATHER ADAMO SCHOLARSHIP
Student studying Roman Catholic theology or counseling; 3.3 GPA; Transferring and continuing education to obtain Bachelor of Arts

ALUMNI ASSOCIATION SCHOLARSHIP
Continuing MWCC student; completed at least one semester of study; GPA of 3.0 or higher; financial need

ALUMNI ASSOCIATION SCHOLARSHIP
Completed degree or certificate at MWCC; GPA 3.0 or higher, transferring to baccalaureate institution; financial need

ASPASIA ANASTOS AWARD
Returning student who demonstrated excellence in the humanities, especially English
EDITH V. BALDYGA SCHOLARSHIP FUND
Graduating MWCC student who is preparing for a career in Elementary Education. This award will also be given based on financial need and academic performance.

JOSEPH S. BALDYGA VETERAN’S FUND
MWCC student, graduating from the business program and transferring to a four-year school and who is a Veteran of the armed forces. This award based on academic performance.

BARNES & NOBLE SCHOLARSHIP
Academic achievement; GPA 3.3 or higher; preference: 30 earned credits at MWCC; transfer credits may be considered; financial need; MassTransfer Program student transferring to a state college or university

JOHN C. BURTON AWARD
Transferring to a baccalaureate institution; Art student pursuing a career in art; preference to an openly gay/lesbian student

DAVID H. BUTLER MEMORIAL SCHOLARSHIP
MWCC continuing student; GPA 2.7 or higher; demonstrated service to MWCC students; demonstrated service to the community where the student resides; demonstrated financial need

BARRIEB ACHAPLIN MEMORIAL SCHOLARSHIP
Nontraditional female student; English or Education program; transferring or recently transferred to a baccalaureate institution; GPA 3.0 and completed 30 credits at MWCC

JONATHAN C. CRAVEN SCHOLARSHIP
Letter describing how the student resembles the traits of Mr. Craven in using education to assist humanity; financial need; GPA 3.0 or higher; resident of Massachusetts; 30 credits earned at MWCC or transferring to a baccalaureate institution

ELLEN DALY DENTAL HYGIENE SCHOLARSHIP
Second year Dental Hygiene student; GPA 3.5 or higher; demonstrates clinical excellence, leadership, and professionalism

REBECCA ANN DESJARDINS MEMORIAL SCHOLARSHIP
Resident of Westminster, Gardner, or Ashburnham; preference to a female; MWCC continuing student; GPA 3.0 or higher and financial need; direct costs: tuition, fees, and books

FIRST CONGREGATIONAL CHURCH OF GARDNER SCHOLARSHIP
Continuing MWCC student in one of the following programs: CHD, HS, MAS, NU, NUP, or PTA; GPA 3.3 or higher preferred; 30 credits earned at MWCC; transfer credits considered

JAMES O. GARRISON CHILDCARE STIPEND
Enrolled full-time at MWCC; demonstrate financial need; have dependents age 2.9 to 5 enrolled at Garrison Education Center; priority given to Early Childhood Education majors

JAMES O. GARRISON SCHOLARSHIP
Enrolled in Early Childhood Education heading toward certificate or degree; can be used for tuition and fees; open to new and continuing students; demonstrating financial need

ROBERT H. GILMAN MEMORIAL SCHOLARSHIP
Continuing or transferring MWCC student; demonstrated commitment to education; demonstrated volunteerism; financial need

ARTHUR F. HALEY SCHOLARSHIP
Academic achievement: GPA 3.3 or higher; preference: 30 credits earned at MWCC; transfer credits may be considered; demonstrated community service; financial need

TWYLA J. HALEY MEMORIAL NURSING SCHOLARSHIP
Second year MWCC nursing student; GPA 3.0 or higher; other considerations: community service, employment status, financial need; direct costs: tuition, fees, books
CRAIG A. HAMEL SCHOLARSHIP
Graduate or post graduate from the Nursing program who has definite plans to further his/her nursing education, or; a student who is transferring to a baccalaureate nursing program, nominated by faculty member at MWCC

HOPE EDUCATION FUND
Non-traditional students, HOPE for Women program graduates, and HOPE Youth Program participants currently enrolled at MWCC

H. MARILYN (WICKERI) KIOSSES SCHOLARSHIP
Nursing student demonstrating commitment to patient care

THOMAS AND ALICE KYMALAINEN SCHOLARSHIP
Academic achievement: GPA 2.5 or higher; preference: 30 credits earned at MWCC; transfer credits may be considered; financial need may be considered; recognizes the average student who is ambitious in achieving their goals

MELISSA HERR MARSH SCHOLARSHIP
Nursing student entering their second year; GPA 3.5 or higher; married with children; community service

MILLE MCGUIRE FOUNDATION SCHOLARSHIP
Single parent balancing home, work, education; service to community/church; financial need; for enrolling, returning, or transfer student

MOUNT OBSERVER SCHOLARSHIP
One full year of work for the Observer; transferring to a baccalaureate institution; financial need may be considered; tuition, books, and fees at the college of the student’s choice

JAMES D. MURPHY SCHOLARSHIP
Student who has served as a student body representative on the MWCC Board of Trustees

NASHOBA VALLEY HEALTHCARE FUND
Non-traditional students (full or part time); second career students; residing or working in the Nashoba Region; registered in a health science program

CARLTON E. NICHOLS SCHOLARSHIP
Resident of Gardner; academic achievement: GPA 3.3 or higher; financial need; direct costs: tuition, fees, and books

KEITH NIVALA SCHOLARSHIP
Graduate with a high GPA; transferring to a baccalaureate institution; law enforcement officer

CARRIE PROGEN SCHOLARSHIP
MWCC Art student; preference to Gardner area resident (Ashburnham, Baldwinville, Gardner, Hubbardston, Templeton, Westminster, Winchendon)

KATHI J. PULLEN SCHOLARSHIP
Female 30 years or older balancing home, work, and education; GPA 3.3 or higher; earned nine credits or more at MWCC

ROBERTS SCHOLAR
Recipient will demonstrate strong academic performance and persistence, in addition to Christian fellowship through his or her collegiate, personal or professional life. The student selected will be paired with a mentor to assist them in their pursuits for the year of the award.

JOSEPH B. RUTH SCHOLARSHIP
MWCC Business program graduate; transferring to a baccalaureate institution; award based on academic performance and financial need

SANDY SIGNOR STUDENT ACHIEVEMENT AWARD
Student who has persevered and achieved success in his/her college work
STERILITE STUDENT SUCCESS FUND
Students must be in good standing and demonstrate financial need

EDWARD W. STEVENS SCHOLARSHIP
Continuing MWCC student with at least 30 earned credits; GPA 3.0 or higher; STEM, LAS, or CIS student (Engineering science); financial need

ALBERT H. & REUBEN S. STONE FUND SCHOLARSHIP
Resident of Gardner; academic achievement; GPA 3.3 or higher; financial need; direct costs: tuition, fees, and books

CARL TAMMI AWARD
Extraordinary Computer Information System programming major; GPA 3.0 or higher; 45 credits earned at time of application

THE PETER J. TRAINOR LEADERSHIP AWARD
Given annually to the student, who in the opinion of the Academic and Student Affairs leadership teams, has most exemplified the traits that Peter Trainor demonstrated during his career at the college; sense of humor, wisdom, thoughtfulness, commitment to family and friends and a sense of teamwork

VETERAN'S MEMORIAL SCHOLARSHIP
Service in U.S. Armed Forces, honorable discharge; enrolled full time at MWCC or transferring to baccalaureate institution; demonstrated service to college and community. This scholarship was established by the Vietnam Memorial Wall committee-2003

ROBERT WEIBEL ART AWARD
Graduating Art student; demonstrated outstanding progress and commitment to art while at MWCC
ACADEMICS
The Division of Academic Affairs is responsible for providing comprehensive, high-quality educational opportunities that meet the intellectual, professional and personal needs of a diverse student body. The Division provides a full range of degree and certificate programs that respond to the educational needs of the citizens of Northern Worcester County.

ACADEMIC CALENDAR
The academic calendar is available online at this link (http://www.mwcc.edu/academic/academic-calendar/).

ACADEMIC SUPPORT CENTER
The Academic Support Center provides free tutoring to MWCC students seeking assistance with their coursework. In-person tutoring takes place in the Academic Support Center space of the LaChance Library on the Gardner campus and also in allocated spaces on the Leominster and Devens campuses.

Math and writing tutoring is available on a walk-in basis at the Gardner and Leominster campuses. Writing tutors can help students learn and apply the basic principles of effective composition for writing projects in all classes, including formatting citations for written assignments. Math tutors provide assistance in mathematics, from arithmetic to calculus and statistics, as well as assistance with the mathematical concepts in courses in the natural and social sciences and business.

Other subjects are available in-person as well and a schedule is published each semester.

Online tutoring is available to all registered MWCC students through Thinking Storm, where students can live chat with tutors and upload papers for review. Students can access Thinking Storm via Blackboard.

Information about campus locations, available services, tutor schedules, policies, and hours of operation can be found at the MWCC Academic Support Center (http://mwcc.edu/lib/asc/).

ALTERNATE METHODS OF EARNING COLLEGE CREDIT
To graduate, students must earn a minimum of 30 credits at MWCC for completion of an associate degree. A maximum of 30 credits (45 credits under special circumstances and with permission of the department chair, the division dean, and the Vice President of Academic and Student Affairs) may be transferred into MWCC, including courses from other colleges, CLEP, DSST, AP exams, and armed services (with some exceptions), and Career Vocational Technical Education (CVTE) Linkage. Students must earn a minimum of 15 credits at MWCC for completion of a certificate program and may only earn 7 credits from alternate methods. Students enrolled in the Criminal Justice program might not be eligible for assessment of prior learning, police academy, armed services or CVTE Linkage credits and are limited to six credits total from CLEP and DSST.

**Advanced Placement Examinations (AP)**
Students who pass Advanced Placement (AP) examinations and earn a score of three or higher may receive credit for the appropriate course or courses offered by the college. Official transcripts from the College Board, with official exam scores, are required.

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Minimum Score</th>
<th>Credits Earned</th>
<th>Equivalent Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History (<a href="https://apstudent.collegeboard.org/apcourse/ap-art-history/">https://apstudent.collegeboard.org/apcourse/ap-art-history/</a>)</td>
<td>3</td>
<td>3</td>
<td>ART 109 Art History I</td>
</tr>
<tr>
<td>Biology (<a href="https://apstudent.collegeboard.org/apcourse/ap-biology/">https://apstudent.collegeboard.org/apcourse/ap-biology/</a>)</td>
<td>3</td>
<td>4</td>
<td>BIO 109 Biology I</td>
</tr>
<tr>
<td>Calculus AB (<a href="https://apstudent.collegeboard.org/apcourse/ap-calculus-ab/">https://apstudent.collegeboard.org/apcourse/ap-calculus-ab/</a>)</td>
<td>3</td>
<td>4</td>
<td>MAT 211 Calculus I</td>
</tr>
<tr>
<td>Calculus BC (<a href="https://apstudent.collegeboard.org/apcourse/ap-calculus-bc/">https://apstudent.collegeboard.org/apcourse/ap-calculus-bc/</a>)</td>
<td>3 (w/CALCAB subscore of 3 or higher)</td>
<td>4</td>
<td>MAT 211 Calculus I (see also next entry)</td>
</tr>
<tr>
<td>Calculus BC (<a href="https://apstudent.collegeboard.org/apcourse/ap-calculus-bc/">https://apstudent.collegeboard.org/apcourse/ap-calculus-bc/</a>)</td>
<td>4</td>
<td>8</td>
<td>MAT 211 Calculus I and MAT 212 Calculus II</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------------------</td>
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<tr>
<td>Chemistry (<a href="https://apstudent.collegeboard.org/apcourse/ap-chemistry/">https://apstudent.collegeboard.org/apcourse/ap-chemistry/</a>)</td>
<td>3</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

CHE 107 General Chemistry I and CHE 108 General Chemistry II [Humanities Elective]

[Political Science Elective]

CIS 109 Introduction to Programming

CIS 109 Introduction to Programming

ENG 101 College Writing I

ENG 102 College Writing II

EAS 110 Introduction to Environmental Science

[One History Elective] (see also next entry)

[Two History Electives]

FRE 107 French I (see also next entry)

FRE 107 French I and FRE 108 Beginning French II
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>German Language and Culture</td>
<td>3</td>
<td>3 [Humanities Elective]</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3</td>
<td>GEO 129 World And Cultural Geography</td>
</tr>
<tr>
<td>Italian Language and Culture</td>
<td>3</td>
<td>[Humanities Elective]</td>
</tr>
<tr>
<td>Japanese Language and Culture</td>
<td>3</td>
<td>[Humanities Elective]</td>
</tr>
<tr>
<td>Latin</td>
<td>3</td>
<td>[Humanities Elective]</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3</td>
<td>ECO 101 Macroeconomics</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3</td>
<td>ECO 102 Microeconomics</td>
</tr>
<tr>
<td>Music Theory</td>
<td>3</td>
<td>MUS 103 Music Skills And Theory I</td>
</tr>
<tr>
<td>Physics 1: Algebra-Based</td>
<td>3</td>
<td>PHY 105 College Physics I</td>
</tr>
<tr>
<td>Physics 2: Algebra-Based</td>
<td>3</td>
<td>PHY 106 College Physics II</td>
</tr>
<tr>
<td>Physics C: Electricity and Magnetism</td>
<td>3</td>
<td>PHY 120 Physics for Engineering and Science I</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSY 105 Introduction To Psychology</td>
</tr>
<tr>
<td>Spanish Language and Culture</td>
<td>3</td>
<td>SPA 109 Beginning Spanish I (see also next entry)</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
<td>Credits</td>
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<td>-------------------------------------</td>
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<tr>
<td>Spanish Language and Culture</td>
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<td>6</td>
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<tr>
<td>and Culture (https://</td>
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<tr>
<td>apstudent.collegeboard.org/</td>
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<td></td>
</tr>
<tr>
<td>apcourse/ap-spanish-language/)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish Literature and Culture</td>
<td>3</td>
<td>3</td>
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<tr>
<td>and Culture (https://</td>
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<tr>
<td>apstudent.collegeboard.org/</td>
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<tr>
<td>apcourse/ap-spanish-literature-</td>
<td></td>
<td></td>
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<tr>
<td>and-culture/)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics (https://</td>
<td>3</td>
<td>3</td>
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<tr>
<td>apstudent.collegeboard.org/</td>
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<td></td>
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<tr>
<td>apcourse/ap-statistics/)</td>
<td></td>
<td></td>
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<tr>
<td>Studio Art: 2-D Design</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
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</tr>
<tr>
<td>apcourse/ap-studio-art-2-d-design/)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio Art: 3-D Design</td>
<td>3</td>
<td>3</td>
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<tr>
<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
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</tr>
<tr>
<td>apcourse/ap-studio-art-3-d-design/)</td>
<td></td>
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<tr>
<td>Studio Art: Drawing</td>
<td>3</td>
<td>3</td>
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<tr>
<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>apcourse/ap-studio-art-drawing/)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>United States Government and Politics (<a href="https://apstudent.collegeboard.org/apcourse/ap-united-states-government-and-politics/">https://apstudent.collegeboard.org/apcourse/ap-united-states-government-and-politics/</a>)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>United States History</td>
<td>3</td>
<td>3</td>
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<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
<td></td>
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<tr>
<td>apcourse/ap-united-states-history/)</td>
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</tr>
<tr>
<td>United States History</td>
<td>4</td>
<td>6</td>
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<tr>
<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
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<tr>
<td>apcourse/ap-united-states-history/)</td>
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<tr>
<td>World History</td>
<td>3</td>
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<tr>
<td>(<a href="https://apstudent.collegeboard.org/">https://apstudent.collegeboard.org/</a></td>
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<tr>
<td>apcourse/ap-world-history/)</td>
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</tr>
</tbody>
</table>

**Valor Act Academic Credit Evaluation Policy**

Please see the Veterans (p. 377) page of this catalog.

**College Level Examination Program (CLEP)**

CLEP (College Level Examination Program) examinations allow students to earn college credit by demonstrating their subject knowledge. CLEP exams can help students graduate in less time at lower cost. Examinations are administered by computer.

Consult an academic advisor before registering for a CLEP exam (http://mwcc.edu/advising/), as not all exams will transfer or be beneficial to your program. Transfer credit is granted when the college receives an official score report from the College Board. For information about registration and fees, a complete list of approved exams available at MWCC, and minimum score requirements, visit the Testing Services website (http://mwcc.edu/testing/clep-exam/).
DANTES Subject Standardized Tests (DSST)

DSST tests allow students to earn college credit by demonstrating their subject knowledge. DSST may help students graduate in less time at a lower cost. Tests are administered by computer.

Consult an academic advisor before registering for a DSST test (http://mwcc.edu/advising/), as not all exams will transfer or be beneficial to your program. Students receive their scores immediately after completion of the exams. Transfer credit is granted when the college receives an official score report from DSST. For more information about registration and fees, a complete listing of DSST titles available at MWCC, and minimum score requirements, visit the Testing Services website. (http://mwcc.edu/testing/dsst-exam/)

Assessment of Prior Learning (APL)

Credits may be earned in some programs for college-level learning acquired through work or informal educational experiences. If interested in earning credits for prior learning, the student must first meet with an Academic Advisor to evaluate if Assessment of Prior Learning (APL) is a viable option. The student and the Academic Advisor will review specific course syllabi to determine if the student has mastered the learning outcomes associated with the course(s). Once this determination has been made, the student will register for the free, self-directed Portfolio Development Course. The student will begin the course by creating an alignment chart to aid in the completion of the portfolio. The student will then collect and digitize artifacts which demonstrate that the student has learned the course content. Complete portfolios will include critical reflection in which students articulate the connections between the artifacts and the learning objectives. Finally, the student will submit the portfolio for faculty evaluation. Students are charged $100 for each portfolio submitted for review. Portfolio review costs are not covered by financial aid or other forms of tuition waivers. The credits earned through prior learning may not transfer directly to other colleges or universities. Prior learning credit cannot be applied to the Criminal Justice program or to capstone courses.

High School Articulation Agreements

Articulation agreements between the college and area secondary schools provide coordination of technical education during the last two years of high school with the first two years of postsecondary education. These agreements state the conditions and criteria that must be met by graduating high school seniors to receive advanced placement and college credit. MWCC’s Career Vocational Technical Educational Linkage program provides students with an option of enrollment in various career programs. For more information on high school articulation agreements, please visit the MWCC Division of Access and Transition (https://mwcc.edu/academics/k-12/programs/articulation/).

Chapter 74 Technical High Schools Statewide Transfer Articulation Agreements

In 2010, the Massachusetts Community Colleges Executive Office (MCCEO) and the Massachusetts Department of Elementary and Secondary Education (DESE) partnered to form a task force with representation from both chapter 74 vocational high schools and community colleges to form statewide articulation agreements, where students can receive college credits for work completed while in high school.

For more information on the Chapter 74 Transfer Agreements visit the Statewide Agreements (https://masscc.org/content/cvte-statewide-agreements/) website. Students must have a “B” (3.0) grade point average in their vocational courses and a 2.0 (“C”) overall average, in order to receive college credit once they enroll at MWCC. It must also be within 2 years of graduating from high school.

Below is a table that shows the credits that MWCC will award students for their work while in high school.

<table>
<thead>
<tr>
<th>MASSACHUSETTS STATE ARTICULATION AGREEMENTS FOR CVTE CHAPTER 74 HIGH SCHOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MA Chapter 74 Approved Technical Programs</strong></td>
</tr>
<tr>
<td><strong>Assabet Regional Technical High School</strong></td>
</tr>
<tr>
<td>Media Arts &amp; Tech. Photography</td>
</tr>
<tr>
<td>Media Arts &amp; Tech. Video Production</td>
</tr>
<tr>
<td><strong>Clinton High School</strong></td>
</tr>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td><strong>ConVal Regional High School</strong></td>
</tr>
<tr>
<td>Fireground Procedures</td>
</tr>
<tr>
<td>Program</td>
</tr>
<tr>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>National Emergency Medical Technician</td>
</tr>
<tr>
<td>Fitchburg High School</td>
</tr>
<tr>
<td>Accounting I &amp; Accounting II</td>
</tr>
<tr>
<td>Computer Applications &amp; Microsoft Office</td>
</tr>
<tr>
<td>Leominster Center for Technical Education</td>
</tr>
<tr>
<td>Automotive Technology I-IV</td>
</tr>
<tr>
<td>Drafting/CAD I-IV</td>
</tr>
<tr>
<td>Graphic Communication I-IV</td>
</tr>
<tr>
<td>Lunenburg High School</td>
</tr>
<tr>
<td>Biotechnology</td>
</tr>
<tr>
<td>Monty Tech</td>
</tr>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td>Administrative Assistant Certificate</td>
</tr>
<tr>
<td>Automotive Technology I-IV</td>
</tr>
<tr>
<td>Business Technology I-IV</td>
</tr>
<tr>
<td>Dental Assisting</td>
</tr>
<tr>
<td>Drafting I-IV</td>
</tr>
<tr>
<td>Early Childhood Education I-IV</td>
</tr>
<tr>
<td>Early Childhood Education I-IV w/ CDA credential</td>
</tr>
<tr>
<td>Engineering Technology I-IV</td>
</tr>
<tr>
<td>Graphic Communication I-IV</td>
</tr>
<tr>
<td>Program</td>
</tr>
<tr>
<td>----------------------------------------------</td>
</tr>
<tr>
<td><strong>Health Occupations I-IV</strong></td>
</tr>
<tr>
<td><strong>Information Technology I-IV</strong></td>
</tr>
<tr>
<td><strong>Machine Technology</strong></td>
</tr>
<tr>
<td><strong>Practical Nursing Program</strong></td>
</tr>
<tr>
<td><strong>Nashoba Valley Technical High School</strong></td>
</tr>
<tr>
<td>Dental Assisting</td>
</tr>
<tr>
<td>Design &amp; Visual Communications</td>
</tr>
<tr>
<td><strong>Early Childhood Education I-IV</strong></td>
</tr>
<tr>
<td><strong>Health Assisting Career Pathways</strong></td>
</tr>
<tr>
<td><strong>Marketing</strong></td>
</tr>
<tr>
<td><strong>TV &amp; Media Broadcasting/Theatre Arts</strong></td>
</tr>
<tr>
<td><strong>Wachusett Regional High School</strong></td>
</tr>
<tr>
<td>Early Childhood Education I-IV</td>
</tr>
<tr>
<td><strong>Worcester Technical High School (VET Assisting)</strong></td>
</tr>
<tr>
<td>Freshman Related Theory Sophomore &amp; Junior Shop</td>
</tr>
</tbody>
</table>

**For questions, please contact:** Linda Velez Scullane, Ext. 9857 or Veronica Guay, Ext. 9533

**PERKINS CAREER AND TECHNICAL EDUCATION**

The Carl D. Perkins Career and Technical Education Allocation is a grant that provides resources and support to students pursuing career and technical education degrees. These services assist students in reaching their academic and career goals through academic support, as well as personal and career counseling. Individual services are provided for students, along with group workshops, printed information, and seminars on topics such as all aspect of industries, success strategies for students in special populations, academic program requirements, job requirements, resume writing, interviewing skills, job readiness, and occupations that are non-traditional for a gender.
COMPUTER LABS

The MWCC campuses offer 28 computer labs. Several are designated for specific programs, such as Graphic and Interactive Design. The Gardner, Devens, and Leominster campuses provide open labs for student use throughout the day. There are more than 50 computers available during Library hours in the LaChance Library on the Gardner Campus. Computers are networked to printers at locations on campus through the PaperCut print management system. Instructions for printing are available in the Library. Printing costs 10 cents per side. Scanning to email is free when using Library printers. Headphones are available for loan at the Circulation Desk on the main level of the Library. Wireless Internet access is available to all users. Students, faculty and staff can choose EDUROAM in their WiFi settings. Guests can choose MWCC WEB LOGIN.

MWCC provides students with 24/7 phone helpdesk support for technology issues at 1-866-520-7129. The Gardner campus Helpdesk is located on the lower level of the Library, and staff members are available to answer questions Monday through Friday from 8AM to 4PM.
COURSE DELIVERY OPTIONS

Traditional Courses

Traditional courses offer students the opportunity to learn in the physical classroom with other students. They require students to attend class in person and on campus. In traditional courses, faculty provide face-to-face instruction to students and communication between and among faculty and students is predominantly in person. These courses often involve active learning and hands-on learning experiences. They may also use technology to advance learning and supplement the classroom experience. Students should anticipate spending a minimum of 6 hours outside of the classroom studying, reading, researching and reviewing course materials.

Web Courses

Web courses are designed for self-motivated, independent learners. They contain the same student learning outcomes as traditional courses and tend to require more reading and writing. Students maintain a consistent pace in submitting assignments, spend a minimum of 9 hours each week studying and participating in online activities, and complete all coursework by the end of the semester. Web courses use Blackboard as their learning management system to create a learning space for students, and students in web courses will need consistent access to a computer and the Internet. They will also need to be able to communicate effectively in writing and through email.

Hybrid Courses

Hybrid courses combine traditional course components and online learning experiences and activities. They contain the same student learning outcomes as traditional courses. They are designed for highly motivated students with good writing skills who require the flexibility of online study but also desire some in-person classroom instruction. Hybrid classes meet on campus in the classroom 50 percent of the time with the remainder of instruction conducted through Blackboard as the learning management system. Students in hybrid courses will need consistent access to a computer and the Internet. They will also need to be able to communicate effectively in writing and through email. Students should anticipate spending a minimum of 6 hours outside of the classroom and online instructional time studying, reading, researching and reviewing course materials.

Independent Study

Independent study courses will be granted only under extraordinary circumstances. If there is another course required in a student’s program, and it is offered, or if there is a course that can be substituted, the student should take that course and should not request an independent study.

Independent study requests will not be granted solely because a course is canceled or not scheduled. Students enrolled in an associate degree program must have completed a minimum of 45 credits with a 2.0 GPA or higher, and students enrolled in a certificate program must have completed a minimum of 15 credits with a 2.0 GPA or higher, to participate in an independent study. Some courses cannot be granted as an independent study. Other courses not available for independent study are Nursing, Physical Therapist Assistant, Dental Hygiene, Dental Assisting, Medical Laboratory Technology, capstone and laboratory courses. The content of an independent study course will be the same as a traditional course. At the end of the course, the student must be proficient in the course content and be at the same level as a student from a traditional course.

Independent study request forms are available in the Advising Center and must be completed with an academic advisor. The request form must be signed by the advisor, the student and the dean before the course is considered approved. An official e-mail will be sent to the student’s MWCC email account stating that his or her request is approved or denied. The student should not begin work until the semester officially starts and they have received official notification that they have been registered for the course.

Internships, Externships and Cooperative Education (“Co-Op”)

A number of academic disciplines, including Human Services and Criminal Justice, provide the opportunity for students to engage in work-based experience. These immersive experiences, which can be paid or unpaid, are opportunities for students to enhance their academic knowledge with practical hands-on experiences in their chosen fields, while also making an impact in our community. In addition, students are able to forge connections and network within the community prior to graduation. Number of credits and hours required vary by academic program.

Internships (called externships by some programs, including Medical Assisting) are integrated directly into the curriculum of a program of study for a degree. Activities included in the experience must be approved by the host site supervisor and the faculty member. Students enrolled may be required to attend an orientation and to report their hours through GivePulse. Some internships may also include a required classroom component.
Students who do not have an internship embedded within their program of study may earn credits by participating in a cooperative education experience (Co-op). To qualify for cooperative education, a student must have completed at least 21 credits in their degree program, maintain a minimum 2.5 GPA, and have an open elective. The student is responsible for securing an approved placement prior to the start of the term. An application must be completed and approved prior to registering for the cooperative education experience. Please note: students enrolled in Automotive Technology are required to take AUT 205: Automotive Cooperative.

MWCC reserves the right to issue a failing grade to any student who does not successfully complete any component of his or her internship or co-op experience. Students who conduct an internship at a nonprofit organization that meets a community need are eligible for service recognition at graduation.

All internship and co-op students are expected to lead their search for a host site, and once placed, conduct themselves in a professional manner and comply with host site policies and all MWCC policies as well as state and federal laws. Guidelines for internships, externships, and co-ops may vary depending on a student’s program of study; students should check with an advisor or the Division of Academic Affairs about requirements for their program.
HONORS PROGRAM (NON-DEGREE PROGRAM)

The Honors Program offers students the opportunity to study and learn in a rewarding and challenging educational environment. Students benefit from a learning community with small class sizes, teacher-student mentoring, a team-taught interdisciplinary course, and access to an Honors Center. Exclusively for Honors students, the Honors Center is a convenient place to meet, study, and collaborate on projects. Honors students receive a tuition waiver during their final semester, special recognition at graduation, and “Commonwealth Honors Program Scholar” designation on official transcripts. The Honors Program is perfect for students seeking transfer to a competitive four-year college and/or seeking additional intellectual pursuits. The Honors Program is a member of the National Collegiate Honors Council (NCHC) and the Northeast Regional Honors Council (NCHC); and is approved as a Commonwealth Honors Program by the Massachusetts Department of Higher Education (DHE).

COMMONWEALTH HONORS PROGRAM STATUS

All MWCC honors courses are transferable as honors courses into Commonwealth Honors Programs within the Massachusetts public higher education system. Graduates of the MWCC Honors Program are guaranteed acceptance into the honors programs at four-year Massachusetts public colleges and universities.

ADMISSIONS REQUIREMENTS

Students applying to the Honors Program must be enrolled in a degree program. Students may be enrolled full-time or part-time. Admission requirements are:

Incoming students – Students are welcome to commence their academic program as a member of the college’s selective Honors Program. Students entering MWCC should meet the following criteria:

• A 3.0 or higher high school GPA for incoming students who graduated within three years of their admission to MWCC and who successfully completed high school honors or AP coursework.
• A 3.3 or higher high school GPA for incoming students who graduated within three years of their admission to MWCC and did not complete high school honors or AP coursework.

Currently enrolled students – Students should make an appointment to meet with the Honors Program Coordinator to discuss academic preparation and must meet the following requirements:

• GPA of 3.3 based on a minimum of 12 credits.
• Two recommendations from MWCC faculty.

Candidates must schedule an interview with the Honors Program Coordinator for consideration.

PROGRAM REQUIREMENTS

• Maintain a 3.3 cumulative GPA. If GPA drops, an Honors Program student is allowed one probationary semester to continue in the program and raise the cumulative average.
• Maintain a minimum “B” in all designated honors courses.
• Honors ENG 102 College Writing II, an honors level version of College Writing II.
• Two Honors courses:
  • These may be “component” courses already required by a student’s degree program (which must be approved as component courses) or specifically designated honors general elective courses. A component course requires additional activities such as independent research, one-on-one tutorials, service learning, and/or a special project. It is strongly recommended that students complete components in courses that are specific to their degree program. Component courses result from a written agreement between a faculty member and a student, approval of the division dean, and approval of the Honors Program Coordinator.
  • One Honors Colloquium course:
    • Honors students enroll in the colloquium course, HUM 283 Honors Research Seminar: Mythscapes: The Geology and Mythology of Iceland, after completing Honors ENG 102 College Writing II and one of the two required honors courses. Exclusively for Honors Program students, the colloquium is interdisciplinary in nature, thematic, and designed and team-taught by MWCC faculty.

Under certain circumstances, Honors Program requirements may be substituted with the approval of the Honors Program Coordinator and the Division Dean.
LIBRARY

The LaChance Library and Academic Support Center is located at the Gardner campus. The main Library houses approximately 40,000 books and also provides access to more than 60 online subscription databases that contain articles from scholarly and academic journals, magazines, newspapers, reference books and eBooks. There are also online collections of streaming audio and video available to current students. The MWCC Library’s website (http://www.mwcc.edu/lib/) serves as a portal for all information sources and extensive research guides for many subject areas and courses. The three levels of the Library offer space for silent study, in addition to group work. On the lower level, there are study rooms that students may reserve for two hours at a time, up to one week in advance. In addition to services at the Gardner campus, the Library provides research assistance for the Leominster, Devens and Burbank campuses by appointment.

LIBRARY POLICIES AND PROCEDURES

Basic Borrowing Privileges

- A Library card, either a current student ID imprinted with a barcode or a paper MWCC Library card with a barcode sticker, is required to check out materials.
- MWCC items are typically checked out for 28 days and can be renewed if no other user is waiting for them.
- Students may have a maximum of 20 items checked out at one time.
- Journals may not be checked out of the Library. (Exceptions may be made for in-house projects.)
- Loan periods for reserve materials vary.

Reserve Materials

Instructors may place materials (books articles, videos, etc.) on reserve for their students. These materials are held behind the Circulation Desk and are checked out to students with a valid library card. The checkout period for items on reserve is determined by the faculty member who assigns them. Most items on reserve may be used in the Library only and may be checked out for two hours.

End-of-Semester Due Dates

All Library materials must be returned to the Library by the last scheduled day of classes. Students who do not return the items to the Library, or do not make arrangements to extend the due date, will have their student records blocked via a Banner hold. Class registrations may be held up and grades will not be available for student review while the hold is in place. Once the items are returned, and the late fees or replacement cost resolved, the hold will be lifted.

Overdue and Lost Items Policy

Overdue fines for materials checked out to students accrue at $.05 per day, with a maximum fine of $2.00 per item. One exception to this policy is materials from the reserve collection, which accrue fines of $.25 per day, with a maximum of $2.00 per item.

Students who receive bills for Library materials will have their student records blocked via a Banner hold. Class registrations may be held up and grades will not be available for student review while the hold is in place. Once the items are returned, and the late fees or replacement cost resolved, the hold will be lifted.

Selection Policy

The resources acquired for the MWCC Library are selected to meet the teaching, research, and service missions of the college community. The Library adheres to the principles of intellectual freedom as outlined in the Library Bill of Rights (http://www.ala.org/ala/issuesadvocacy/intfreedom/librarybill/) of the American Library Association. It is the responsibility of the Library to ensure that different points of view are represented in the collection.
The Library Bill of Rights of the American Library Association states the following: “Books and other library resources should be provided for the interest, information, and enlightenment of all people of the community the library serves. Materials should not be excluded because of the origin, background, or views of those contributing to their creation” (Article 1); and “Libraries should provide materials and information presenting all points of view on current and historical issues. Materials should not be proscribed or removed because of partisan or doctrinal disapproval” (Article 2). The Library also endorses the American Library Association’s Freedom to Read Statement (http://www.ala.org/advocacy/intfreedom/statementspols/freedomreadstatement/), which promotes access to materials expressing all points of view. Inclusion of any resource does not mean that the Library advocates or endorses the ideas or statements found in that resource.

**Challenged Resources**

Students, faculty, staff, and community patrons of the Library may challenge resources in the MWCC Library. A challenge to a resource in the MWCC Library must be based on the failure of that resource to fall within the Library’s selection and collection development policies, including the commitment to intellectual freedom. Challenged material will not be removed automatically from the collection, but will be reviewed with consideration of the objections raised. When material or resources are challenged, the Library may take one of the following actions: removal of a resource because it is inappropriate, the addition of a resource to balance the collection by providing alternative views, a combination of the above, or no action at all. Those persons wishing to challenge a resource in the MWCC Library will be asked to complete a Request for Reconsideration of Library Materials (https://library.mwcc.edu/id.php?content_id=25313863/) form. The completed form should be submitted to the Assistant Dean of Library Services and Technologies, who will acknowledge receipt of the form via letter. The Vice President of Academic and Student Affairs will then consider the request, with the assistance of the librarian responsible for collection development in the subject area of the resource. The recommendation of the Vice President will be sent to the Assistant Dean of Library Services and Technologies, who will make the final decision and notify the person making the challenge in writing of that decision and any action to be taken. Any appeals will go to the President of the college.

**Confidentiality Policy**

MWCC Library adheres to the ALA (American Library Association) Code of Ethics (http://www.ala.org/advocacy/proethics/codeofethics/codeethics/), which includes the following statement: “We protect each library user’s right to privacy and confidentiality with respect to information sought or received and resources consulted, borrowed, acquired or transmitted.” The MWCC Library also follows the Massachusetts General Law Chapter 78 (http://mblc.state.ma.us/mblc/laws/laws.php), section 7, which states “that part of the records of a public library which reveals the identity and intellectual pursuits of a person using such library shall not be a public record.” MWCC Library staff strive to protect the confidentiality of each Library user’s records. No staff member will disclose any personally identifiable Library user records including, but not limited to, circulation records, patron registration records, patron e-mail and computer records, interlibrary loan requests, or reference requests, to any person other than the Library users themselves unless:

1. The Library user has given informed consent (in writing) for another individual to obtain that information; or
2. An authorized person (MWCC staff member) requires that information for retrieval of overdue Library materials or compensation for damaged or lost library materials; or
3. The request is made by a law enforcement official or a court order. The Assistant Dean of Library Services and Technologies will confer with MWCC legal counsel before determining the proper response to any law enforcement request or served court order. All Library staff will refer any law enforcement inquiries regarding patron confidentiality to the Assistant Dean of Library Services and Technologies.
TESTING

Testing Services at MWCC provides students, faculty, and community members with a securely monitored testing environment. Tests administered include the ACCUPLACER tests, Assessment Technologies Institute (ATI) Test of Essential Academic Skills (TEAS), College Level Examination Program (CLEP) tests, DSST, tests with disability services accommodations, academic tests for MWCC classes, proctored testing for students attending other institutions, Pearson VUE tests, the High School Equivalency Test (HiSET), and General Education Development (GED) tests.

For information about testing services at MWCC, and details on testing at each MWCC campus, please visit the MWCC Testing Services webpage (http://mwcc.edu/testing/).

The MWCC Testing Center on the Gardner campus is a National College Testing Association (NCTA) Certified Test Center. Our services are in compliance with the Professional Standards and Guidelines of NCTA. To contact the Testing Center, call 978-630-9244 or 978-630-9220.
MassTransfer

MassTransfer is a collaboration among the Commonwealth's community colleges, state universities and the University of Massachusetts. System-wide resources and policies allow for students to transfer seamlessly, stay on track, and minimize the time it takes to earn a bachelor’s degree.

General Education Foundation - non-STEM and STEM

MassTransfer provides any student in the Massachusetts public higher education system who completes the General Education Foundation (http://www.mass.edu/masstransfer/gened/home.asp) with the benefit of satisfying the general education/distribution/core requirements at any other public higher education institution (with the receiving institution able to add no more than six additional credits or two courses). There are two General Education Foundations to choose from - non-STEM and STEM. Transfer GPA is a 2.00 minimum.

GENERAL EDUCATION FOUNDATION - NON-STEM

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tr>
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<td>College Writing I</td>
<td>3</td>
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<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral and Social Sciences</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Natural and Physical Sciences</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(Total credits)</td>
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GENERAL EDUCATION FOUNDATION - STEM

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Science</td>
<td>Electives</td>
<td>7-8</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Elective</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Bachelor Degree Completion Programs

Earn 60-90 credits at MWCC and then transfer to a specific four-year college or university and earn your bachelor's degree. In some cases, students can complete the entire 120+ credit bachelor's degree without leaving MWCC. To participate in a degree completion program, specialized advising is required. Contact the Advising Center at 978-630-9109 to schedule an appointment with a Transfer Advisor. Visit https://mwcc.edu/academics/advising/transfer/ for more information.

A2B Degree (Associate to Bachelor's)

Beginning your college career at a community college is a smart choice. MassTransfer seeks to reward community college students who complete associate degrees at Massachusetts community colleges before they enroll in linked bachelor's programs at Massachusetts state universities or University of Massachusetts campuses. Not only does MassTransfer guarantee full transfer of a minimum of 60 credits but, depending on final GPA and/or prerequisite coursework, students who complete A2B Degrees (http://www.mass.edu/masstransfer/a2b/home.asp) (Associate to Bachelor’s) may also receive guaranteed admission and tuition discounts. Transfer GPA is a 2.50 minimum.

A2B Degree plus Commonwealth Commitment

A2B Degree students who attend full-time or part-time (minimum of 9 credits) and earn a 3.00 GPA or higher also have the opportunity to participate in the Commonwealth Commitment (http://www.mass.edu/masstransfer/macomcom/home.asp). The Commonwealth Commitment (available in “A2B Mapped” majors only) further rewards students with a freeze on tuition and fees for all four years and 10% end-of-semester rebates. Transfer GPA is a 2.50 minimum.

For more information about MassTransfer programs, please contact the Advising Center at 978-630-9109 or email advisor@mwcc.mass.edu.

TRANSFER ADVISING SERVICES

Transfer advising is offered for students who want to continue their education beyond MWCC. MWCC participates in MassTransfer programs such as the Commonwealth Commitment and A2B Degree programs with Massachusetts state universities and the University of Massachusetts campuses. Additionally, the college has many transfer agreements with private and public colleges established to ensure a smooth transfer process. Annually, students transfer to more than 60 different colleges and universities across the United States. Learn how you can save time and money by graduating from MWCC. Visit the transfer (https://mwcc.edu/academics/advising/transfer/)advising services webpage or call 978-630-9109 to schedule an appointment with a transfer advisor. Transfer advising is located in the Advising Center on the Gardner campus, available by appointment on the Leominster campus or via phone.
Transfer of Credit to MWCC

Mount Wachusett Community College’s transfer policy is consistent with the Massachusetts Community College Transfer Principles (http://mwcc.edu/wp-content/blogs.dir/1/files/2017/06/AAC-17-29-Community-College-Transfer-Principles.pdf).

Students seeking to transfer credits to MWCC should submit an official transcript from each institution for which he/she is seeking the transfer of credits. Upon receipt of the transcript(s), the college will verify the accreditation of the institution(s); and if comparable regional accreditation exists, the college will review the courses to determine comparability with MWCC courses.

Where an equivalent course exists, credit will be granted for that course with a non-weighted GPA grade being awarded (e.g. TA, TB, TC, etc.). Where no equivalent course exists, but it is determined that the course is eligible for transfer based on college-level work and the applicability toward the student’s declared degree or certificate program, the course will be awarded transfer credit in the field of study most closely aligned to the course.

The minimum course grade required for credits to transfer to MWCC is C-. Certain programs of study may have higher grade point average requirements for designated courses in their program. Students should consult their degree requirements for specific program differences.

Non-graded course work will not be transferred (e.g. pass/fail courses) with the exception of competency-based courses from an accredited institution where mastery has been documented. The credits from these courses will be transferred into a degree program where applicable and awarded credit as TP (Transfer Pass).

Course age limits identified in a program of study or through the admissions process will be observed when determining transfer credits.

If a student changes his/her program of study, the college will re-evaluate transcripts to provide current information.

The maximum number of allowable transfer credits is 50% of the credits required for degree completion in the enrolled program (45 credits with permission of the department chair, the division dean, and Vice President of Academic and Student Affairs).

Determinations of transfer credit will be made within a reasonable period of time after the receipt of the official transcript and all required additional documentation. Notice to the student will be given at the time of the completed evaluation.

Students must receive a grade for a course undertaken at MWCC to qualify to receive an official transcript from MWCC.

Credits earned at non-accredited institutions or institutions with accreditation different from MWCC will receive the following review processes:

- The student should submit official transcript(s) from the institution(s) for which he/she is seeking transfer credit.
- The college follows the American Council on Education’s (ACE) published recommendations on the transfer of non-accredited institutional credit, including military and credit for training programs. These guidelines are published at the ACE website. (http://www.acenet.edu/news-room/Pages/Transfer-Guide-Understanding-Your-Military-Transcript-and-ACE-Credit-Recommendations.aspx)

For credits earned from international institutions, the college will follow the guidelines established by National Association of Credential Evaluation Services (NACES (http://www.naces.org)). Students requesting evaluation of transcripts from institutions outside the U.S. must obtain a "course by course" evaluation from a credential evaluation service that is a current member of NACES. Evaluation of such transcripts might also require additional information from the source institution's academic catalog.

The college may, at its discretion, form articulation agreements with non-regionally accredited institutions or organizations that will dictate the transfer of credit for students transferring between them.

In compliance with the most current Massachusetts Quinn Bill revisions, the college may only accept certain credits for criminal justice students and/or courses. This may restrict the college’s general policy for the granting of credit for life experience or military credits in this case.

Any student who feels as though an error or omission has occurred in the evaluation of his/her transfer credit may appeal the situation to the transfer ombudsperson whose responsibility is to ensure institutional compliance with transfer policies and procedures. The transfer ombudsperson is the Vice President of Academic and Student Affairs, who can be reached at 978-630-9208.
ACADEMIC AND GRADING POLICIES

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ABSENCE OF STUDENT DUE TO RELIGIOUS BELIEFS

Any Mount Wachusett Community College student who is unable because of his/her religious beliefs to attend classes or to participate in any examination, study or work requirement on a particular day shall be excused from any such examination or study or work requirement. The student shall be given an opportunity to make up activities which he or she may have missed provided that such makeup examination or work shall not create an unreasonable burden upon the school. No fees of any kind shall be charged by the institution for making this opportunity available. No adverse or prejudicial effects shall result from these provisions.

ACADEMIC HONESTY POLICY

Students enrolled in MWCC’s courses are responsible for academic honesty. All members of the MWCC community strive to promote honesty in scholarship and research. The primary responsibility for maintaining standards of academic integrity rests with the individual student. Academic honesty is required of all students at MWCC. The Academic Honesty Policy is intended to establish and enforce uniformly just and equitable procedures for resolving allegations of dishonesty. Students must also become knowledgeable about what constitutes cheating, plagiarism, and fabrication by asking the instructor and consulting with the Academic Support Center. Students are instructed to resolve questions or confusion about appropriate documenting and referencing techniques before submitting assignments. The instructor reserves the right to fail students who cheat, plagiarize, or fabricate. Academic dishonesty is prohibited at MWCC and includes but is not limited to:

Cheating: intentional use and/or attempted use of trickery, artifice, deception, breach of confidence, fraud and/or misrepresentation of one’s academic work. Includes giving or receiving aid during examinations or in completing laboratory assignments, computer programs, or other work assigned in courses, unless given explicit permission by the instructor.

Examples: use of books, notes, or other materials during an examination, unless permitted; copying others’ work or unauthorized cooperation in doing assignments or during an examination; use of purchased essays, term papers, or preparatory research for such papers; submission of work originally done by someone else; submission of the same written work in more than one course without prior approval from the instructors involved; falsification of experimental data or results; unauthorized use of username or password; use of false signatures or initials on course related material.

Plagiarism: using another person’s words or ideas without acknowledgement.

Fabrication: intentional and unauthorized falsification and/or invention of any information or citation in any academic exercise.

Examples: the use of “invented” information in any laboratory experiment or academic exercise without notice to and authorization from the instructor; alteration and re-submission of returned academic work without notice to and authorization of the instructor; misrepresentation of the actual source from which information is cited.

Student Rights and Responsibilities

Students are responsible for being aware of and understanding the MWCC Academic Honesty Policy. Students have rights to due process (see under Consequences). Students have the right to file a grievance if they feel that the faculty’s action taken in the alleged incident abrogated their student rights.

Faculty Rights and Responsibilities

This policy recognizes the right of faculty to manage their class, including addressing directly with students issues of academic dishonesty. When academic dishonesty is suspected, a faculty member may choose to issue a failing grade. A faculty member may also choose to refer the matter directly to the Code of Conduct Administrator (CCA). Where the issuance of a failing grade by a faculty member for academic dishonesty will result in a student’s dismissal from a program (for example in nursing and other health care programs), the charge of academic dishonesty shall be directly referred to the CCA, which shall be completed, where practicable, within thirty (30) days.

Student Discipline

Any student who violates these standards is subject to the MWCC Student Disciplinary Policy and Procedures, which includes academic dishonesty under the definition of misconduct.

ACADEMIC WARNING, SUSPENSION, AND REINSTATEMENT

Students are required to maintain good academic standing. MWCC may suspend students who do not meet the standards listed below from the college.
Standards for Good Standing

<table>
<thead>
<tr>
<th>Total Number of Attempted Credits</th>
<th>Minimum Grade Point Average Required for Good Standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 credits or less</td>
<td>No minimum</td>
</tr>
<tr>
<td>10-17 credits</td>
<td>1.5</td>
</tr>
<tr>
<td>18 credits or more</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Criteria for Academic Standing

1. Attempted credits include all courses for which the student registered, except those dropped during the add/drop period.
2. Each repeated course counts toward attempted credits, although only the higher grade earned is used in the overall grade point average (GPA) calculation.
3. The first semester that a student fails to meet the minimum overall GPA requirement, he/she will be placed on academic warning. Students will be informed of this status via email and instructed to move through the academic warning process (outlined below).
4. A student who has been on warning for one semester and who fails to earn the minimum GPA as outlined in the above “Standards for Good Standing” chart the following semester will be suspended from the college. Students will be notified of their suspension via their MWCC email address.
5. Suspended students are eligible to appeal the decision to the Academic Review Board (ARB) through the appeal process. Students will be informed via email of the decision of the ARB. When a student is allowed to continue their studies at MWCC, they shall be considered reinstated.
6. Re-instated students are expected to meet with their advisor to create a formal academic plan. Throughout the semester, students are responsible for upholding their plan.
7. Students on an academic plan that meet the requirements of their plan will return to good standing following the calculation of their overall GPA or continue as a re-instated student and establish another academic plan until they achieve good standing.
8. Students who do not follow the requirements of their plan will be re-suspended from the college.
9. Students on an academic plan who are re-suspended will be required to wait at least one semester before submitting an additional appeal to request reinstatement. Students should contact a retention specialist when they are ready to return. Extenuating circumstances may be considered.

The Academic Warning Process

Students must attend an academic warning workshop where they will create a plan for success. Following the workshop, a retention specialist assigned to the student will follow up regularly with the student to ensure progress toward their plan for success.

The Academic Appeal Process

1. Student will be notified via their MWCC email address of the suspension and directed to watch a short video series that offers additional information and instructions.
2. Once the student has watched the video series, he/she must set up a one-on-one appointment with a member of the Student Services team.
3. After meeting with a member of the Student Services team, the student will have the option to complete a written appeal.
4. The written appeal and the student’s entire academic record will then be considered by the Academic Review Board (ARB) and Financial Aid Review Board (FARB). The ARB will render a decision regarding the student’s academic status at MWCC, and the FARB will render a decision regarding the student’s financial aid status. These decisions will be communicated to the student via his/her MWCC email address.
5. Students denied reinstatement may request a review of the decision from the Vice President of Student and Academic Affairs.
ACADEMIC PROGRAM CANCELLATION

The college reserves the right to discontinue academic programs due to low enrollment or other factors. Students who are currently enrolled in the elected program will be notified in writing of the termination procedures and timelines. Formerly enrolled students will be required to select a new program of study or alternately complete the program within the prescribed timeframe.

ACADEMIC RESTART AND GRADE AMNESTY POLICY

Mount Wachusett Community College offers two options for restarting at the college for students who have not attended MWCC for a minimum of three academic years. These options are available upon readmission to MWCC. These options are for academic standing only and do not impact federal financial aid (Satisfactory Academic Progress) requirements or previous financial balances with the College. These options also do not impact standing with the Dean of Students Office. If a student has been suspended through the student conduct process or has one or more holds on their student account, the student will need to satisfactorily complete the conduct process and/or reconcile those outstanding holds before being eligible for either the Academic Restart or Grade Amnesty policies. These options are not applicable for students who have been expelled from the college. Students considering these options should discuss them with an Admissions staff member at the time of readmission.

Academic Restart Option: This option is for students who were on academic suspension at the time they discontinued attendance at the college. This option allows for students to be re-admitted to the college on academic review for the first semester of their return and allow for them to make academic progress without being readmitted as a suspended student. Normal academic progress standards will apply thereafter. Such readmission will be at the discretion of the Dean of Admissions.

Grade Amnesty Option: This option is for students who earned an overall Grade Point Average (GPA) below 2.0 with a grade of C or less in at least 12 credits that are eligible for grade amnesty. Students may request that the course grades less than a “C” that they earned before returning to the college be excluded from the calculation of their GPA provided those courses are not required by the active program(s) of study and were not used previously to earn a degree or certificate. Courses that apply to electives in the new program are eligible for grade amnesty if the student does not plan to retake them. These classes and grades will remain on the student’s transcript with a notation that they have grade amnesty which means they are excluded from the GPA calculation. All grades of “C” or higher are not eligible for exclusion. Students may request this option only once during their history at MWCC with the approval of the Vice President of Academic and Student Affairs.

AUDIT POLICY

The College will review requests to audit courses starting one week before the start of classes through the last day of the add/drop period for each semester. Permission will be granted provided the following:

1. The student meets all pre-requisite requirements of the course;
2. The enrollment in the class is above the minimum enrollment; and
3. All fees are paid upon approval of the request to audit.

Failure to comply with the payment procedure will nullify the approval of the request. Once the student has registered for a course for credit, he/she may not request a change to audit status except as delineated in the above policy. One course per semester may be audited. Academic credit is not granted for an audit course. Audited courses cannot meet pre-requisite or co-requisite requirements.

ASSESSMENT OF STUDENT LEARNING

Mount Wachusett Community College routinely engages in the assessment of student learning at the course, program, and institutional level. The learning outcomes assessment process may include a variety of methods such as standardized tests, student surveys and focus groups, campus-developed instruments, and a review of student course and co-curricular work. In circumstances beyond the individual course level, where a student’s course or co-curricular work is selected for assessment, the identity of the student will be protected. The student’s name, grade or other identifying information will be removed before the student’s work is reviewed. Selected student work may be subject to review by a limited cohort of higher education personnel. Assessment of student learning is undertaken primarily for the purpose of improving student learning, curriculum development, instructional improvement, and enhancing student academic success. Institutional assessment activities will have absolutely no effect on a student’s grade, academic standing, ability to transfer, or ability to graduate. The College will take all necessary steps to ensure the confidentiality of all student records and student work reviewed through this process in accordance with FERPA regulation. MWCC will assess students by using a multiplicity of measurements of student work that include institutional student
learning outcomes assessment and program outcomes assessment. To ensure that students complete a full complement of learning across the disciplines, Institutional Student Learning Outcomes (p. 362) have been developed in accordance with MWCC’s mission and goals.
CHANGE IN DEGREE REQUIREMENTS

In the event that a curriculum is changed between the time a student begins a program of study and the time the program is completed, the student may choose to satisfy either the graduation requirements in effect when the program was begun or those in effect when the program is completed. If more than five years have elapsed between the time when the program of study was begun and the time when it is due to be completed, changes in course content and program structure may be so substantive that credits earned at the beginning of the program of study cannot continue to be counted toward the satisfaction of graduation requirements. In such cases, the student’s option to apply for graduation under the original terms of the program of study may no longer apply. In certain cases, at the discretion of the program division dean, a course normally required for graduation may be replaced by a substitute course. Likewise, certain programs have policies requiring completion of a course earlier than five years. Students with questions should consult the specific program department chair or division dean.

CHANGE OF MAJOR

Changing a major is an important academic decision. A student who wants to change from one program of study to another must meet with an academic advisor to discuss his/her decision, to create a new educational plan and to complete a Change of Program Request Form. The Change of Program Request Form is only available by meeting with an academic advisor. All program change forms require an academic advisor’s signature to be processed. Students should also note that program changes may have financial aid implications.

A change of program initiated will become effective for the start of the subsequent semester. Students may petition to have the change made effective during the current semester. Current students must apply for admission to selective programs through MWCC Admissions. Students wishing to change from non-matriculated to matriculated status must complete a new admissions application through MWCC Admissions. A student who has previously graduated and wishes to begin a new program of study within two semesters of the last date of attendance should meet with an academic advisor to declare a new major; otherwise, the student's status will be non-matriculated.

CHANGING COURSES

During the add/drop period, students may drop courses without academic or financial penalty. With the assistance of an academic advisor, students may also register for courses during the add/drop period, subject to seat availability and college policies. Please reference the academic calendar (http://mwcc.edu/academic/academic-calendar/) for the specific dates of the add/drop period.

CLASS ATTENDANCE POLICY/EXTENDED ABSENCE

Success in college is often related to class participation and attendance. Students are expected to attend ALL scheduled class meetings. If a student is unable to attend a class, it is the student’s responsibility to communicate with the instructor and, if allowed by the instructor, make up work that was missed as a result of his/her absence. Absence does not constitute an excuse for academic work due. Excessive absence is defined by each faculty member and included in the course syllabus. MWCC supports the individual attendance policy as stated on every course syllabus. In the case of emergency or illness that will cause a student to miss three or more consecutive sessions, the student should notify his or her specific instructors and should also notify the Dean of Students in the Student Services Office on the Gardner campus in room 141 or call 978-630-9855.

A student who stops attending (or fails to participate in the case of online courses) will be reported as a "stop out" as of his or her last date of attendance. "Stop outs" due to lack of attendance do not reduce charges. Faculty are asked to report students who have stopped attending class as "stop outs" in order to comply with Federal Financial Aid regulations. A "stop out" results in an F on the student’s transcript.
COLLEGE CREDIT HOUR

One credit hour is equal to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for 15 weeks for one semester of credit, or equivalent amount of work over a different amount of time. For example, a three credit course is 3 hours (a college hour is equal to 50 minutes) of classroom instruction and a minimum of six hours out-of-class student work per week for a 15 week semester. Laboratory work, internships, practicum, studio work, clinical placements and other work leading to credit hours will be at least equivalent to what is listed above. Out-of-class work is listed as a minimum estimate. Students may expect to spend more time on out-of-class work dependent upon the course.

COMMENCEMENT AWARDS

President's Key
A President’s Key is awarded to two graduating students who have achieved outstanding academic performance in their programs of study at MWCC.

Dean’s Key
A Dean’s Key is awarded each year to the graduating student who, in the opinion of the Vice President of Academic and Student Affairs and Dean of Students, has made the most outstanding contribution to the life and spirit of the college through active participation in student activities and who has made significant contributions to the college community.

Graduation Honors
Graduation with Honors is awarded to students who have completed all graduation requirements for an associate degree and have achieved a grade point average of 3.30 to 3.59; High Honors is awarded for a grade point average of 3.60 to 3.79; and Highest Honors is awarded for students with a grade point average of 3.80 or above. Honors determination at graduation will be based only on the courses directly applied to the degree requirements. In cases where more credits have been taken than necessary for a degree, only those grades for courses meeting the degree requirements will be used in the computation for Honors designation. Students who complete a certificate program with a grade point average of 3.3 or higher will be granted Merit at graduation.

COMPUTER ACCESS RECOMMENDED FOR STUDENTS

MWCC highly recommends that students have access to a computer to support their coursework. Access is available to students through computer labs at the Gardner, Leominster, and Devens campuses as well as the library at the Gardner campus. Wireless network connectivity is available in all publicly accessible areas of MWCC, including classrooms, common areas, and office areas at all campuses. Students can also check with their local libraries about the availability of computers for public use. Some courses require students to have laptops available to bring to class; these courses will be noted on the course listings for each term.

COPYRIGHT POLICY

Copyright is an “intellectual” property right, defined as the exclusive right of a creator to reproduce, create derivative works from, distribute, perform, display, sell, lend or rent his/her creation(s). Copyright protects “forms of expression” (e.g., poetry, prose, computer programs, artwork, written or recorded music, animations, movies and videos, java applets, web pages, architectural drawings, photographs, and more) that are fixed in a tangible medium.

MWCC students, faculty, and staff who are responsible for college activities or projects are responsible for learning about applicable fair use and for following its dictates. Members of the college community who willfully disregard the copyright policy do so at their own risk and assume all liability. The best advice is to act in an informed and good faith manner.

FAQ: What will happen if I do not follow this policy accurately?

The person who actually commits the infringement is liable. Case law is slowly evolving. In cases of "willful disregard of the law," criminal actions may be taken. Statutory damages of up to $100,000 per work infringed may be awarded.

Willful infringement means that you knew you were infringing and you did it anyway. Ignorance of the law is no excuse. If you don't know that you are infringing, you may be liable for damages — only the amount of the award will be affected.

The full text of Copyright and Fair Use at MWCC: Guidelines for the College Community is available at this link (http://library.mwcc.edu/copyright/MWCC-policies/).
COURSE LOAD

Students may enroll in no more than eighteen credit hours per semester (this includes the fall, spring, and summer semesters). In addition, students may not enroll in more than nine credits per cycle and six credit hours per intersession. A student may request to exceed any of these limits if he/she has a cumulative grade point average of 3.2 or above and receives the approval of the Division Dean of his/her declared program of study. If a student does not have a declared program of study, then he/she may request approval from the Vice President of Academic and Student Affairs.

DEPLOYMENT POLICY

The call to active duty can present an extreme hardship on students. Students who are called to active duty and notified of deployment should immediately contact Bob Mayer, Director of Veteran Services, at 978-630-9408 or r_mayer@mwcc.mass.edu. Veteran Services will work with students on active duty to determine the most effective and appropriate response for their circumstances to include notification to course faculty.

FULL-TIME STUDENTS AND SOPHOMORE STATUS

Full-time status is considered to be 12 or more credits per semester. Students intending to graduate within two years should plan to enroll in at least 15 credits per semester. Students will be classified as first year students and sophomores based on their earned credits. To be considered a sophomore, a student must have earned 30 or more credits.

GRADE POLICY FOR FOUNDATION COURSES

A grade of C or higher must be achieved in ENG 096 Writing Readiness, ENG 098 Fundamentals of Writing, MAT 092 Foundations of Mathematics, MAT 093 Statway, MAT 097 STEMWAY, RDG 096 Fundamentals of Reading I, RDG 098 Fundamentals of Reading II, and all ESL courses before a student can enroll in the next higher level class.

A grade of D- or higher must be achieved in ENG 097 Writing Seminar.

GRADES

Grade Changes

Only the course instructor may initiate grade changes. Grade changes need the authorization of the appropriate Division Dean. Except under very unusual circumstances, a grade change will not be considered after the midpoint of the semester following that in which the initial grade was earned.

Grade Policy for Failing Grades (F)

Failing grades will be awarded to students who completed the course but did not meet the minimum course student learning outcomes. For students not having completed the course, the Withdrawal from Courses (p. 83) policy will be followed.
Grading System
The college uses the following grading system:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Students may receive the following codes:

<table>
<thead>
<tr>
<th>CIP</th>
<th>Course in Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>IP</td>
<td>In-progress</td>
</tr>
<tr>
<td>L</td>
<td>Audit</td>
</tr>
<tr>
<td>P</td>
<td>Passing (credit given)</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn (without grade point penalty)</td>
</tr>
</tbody>
</table>

The grade point average (GPA) is calculated by multiplying the number of credits for each course a student attempts by the points of the grade received in each course and dividing the total by the total credits attempted. For example, if a student enrolls in four three-credit courses, earns an A in one, a B in another, an F in the third, and a C in the fourth, the grade point average for that semester would be 2.25.
### Example: Calculating Grade Point Average

<table>
<thead>
<tr>
<th>Credits Attempted</th>
<th>Grade</th>
<th>Grade Points</th>
<th>Total (Credits X Grade Points) Equals</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>4.0</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>3.0</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>2.0</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>F</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>12</td>
<td></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

Grade point average (27/12) equals 2.25. The points for each grade are given in the table above on the Grading System.

Credits transferred from other institutions or earned by challenge examinations, CLEP, DSST, Advanced Placement (AP) examinations, pass/fail courses, or by assessment of prior learning, will not be used in the computation of the grade point average.

Note: Many courses/programs will have a minimum grade requirement to advance. Please refer to the individual course/program requirements as noted in the catalog.
GRADUATION

Graduation Procedure

An associate degree or certificate is awarded upon completion of the program requirements as outlined in the catalog. The procedures for graduating students are as follows:

1. Any student who believes that he/she has met or will meet the degree requirements for graduation must complete a petition to graduate form. Priority filing date is October 1 for December graduation, and March 1 for May and August graduation. Students who complete degree requirements in December and those anticipating completion in August are invited to participate in the May commencement. Petitions are available from Academic Advisors, the Advising Center, the Records Office or the college website (https://dynamicforms.ngwebsolutions.com/Submit/Form/Page?form=0fa8d58-afb2-4024-ac76-c482693cd65a&page=175152&section=158915&token=asxGA%2BT1zMhX%2F3l5w%2BBuJG0uJkjj9yWPQXF3yrrb9Y%3D/). Late petitions will be considered only under special circumstances and may result in the late delivery of a diploma.

2. In determining program grade point average (GPA) for graduation, in the case of repeated courses, the higher grade will be applied. In rare cases, students may appeal to substitute a course taken later to satisfy graduation requirements including:
   - A course that is no longer offered and therefore cannot be repeated,
   - Achievement of the minimum 2.0 graduation requirement with the substitution of the later course, or
   - Usage of the later course in the satisfaction of a selective program requirement.

Course substitution requests are facilitated by Academic Advisors or the Records Office and must be approved by the Division Dean.

3. All degree requirements, including transfer credits, degree substitutions, and other necessary documentation, must be completed and accepted by the College no later than April 1 for May and August graduation and November 1 for December graduation. The only exceptions to this rule are courses the student is planning to complete in the summer session and courses in which the student is currently enrolled at MWCC. The degree or certificate will be awarded at the end of the term when required credits have been earned. All grade changes must be fully approved and received by the Records Office no later than the day of graduation to be considered for graduation for that term (spring semester for May graduation, summer semester for August graduation, and fall semester for December graduation). Students who earn incomplete grades required for completion of their program of study will not graduate in that term, unless the approved grade change is received by the date of graduation for that term. In such cases, the student must complete a new petition to graduate when the incomplete grade is submitted with a passing grade.

There is a $25 diploma replacement fee if a student requests a replacement diploma more than five years after the date of his or her graduation.

Students not completing all requirements at the end of the academic year may choose to enroll at another accredited institution and transfer these credits to MWCC for application to the degree. With this option, the degree will be awarded with the next graduating class.

Graduation Requirements

MWCC offers the Associate of Arts and the Associate of Science degrees as well as a variety of certificates. The Associate of Arts degree shall be granted to students who have satisfactorily completed the requirements of a college-designed, and Department of Higher Education approved, program of collegiate-level courses of which at least 34 credits have been drawn from the field of liberal arts and sciences.

The Associate of Science degree shall be granted to students who have satisfactorily completed the requirements of a college-designed, and Department of Higher Education approved, program of collegiate-level courses of which at least 20 credits shall be drawn from the field of general education outside the field of specialization.

To be eligible to receive an associate degree, students must complete all the requirements of one of the college’s degree programs with a minimum of 50% of program requirements in residency and with a program and overall cumulative GPA of not less than 2.0. Students earning a certificate must complete all requirements with a minimum program and overall cumulative grade point average of 2.0. In addition, students in a certificate program must earn a minimum of 15 credits in residence at MWCC.
INCOMPLETE (I) GRADES

An "I" grade (incomplete) is given at the discretion of the instructor and allows a student an additional 30 calendar days from the date of the final examination to complete all course requirements. A student receiving an "I" grade has a responsibility to consult his or her instructor; and the instructor has a reciprocal responsibility to present an opportunity for the student to complete course requirements. The instructor must complete an official Incomplete Grade Form and submit it to the Registrar. The form should outline what assignments need to be completed by the deadline and also include contact information for the instructor for the 30-day period. If at the end of the 30-day extension no passing grade is submitted to the MWCC Records Office by the instructor, the "I" grade will automatically be recorded on the student’s transcript as an F. Students who receive an incomplete grade will be administratively withdrawn from classes in the next semester/cycle that require completion of the course as a prerequisite. Only students who are failing a course are eligible for an incomplete grade. In cases where students are eligible for a grade higher than an “F”, the instructor may agree to accept work after the end of the semester and submit a grade change form should the student earn a higher grade. See Grades policy for more details.

INSTITUTIONAL CREDIT

Foundation courses (course numbers below 101 and English as a Second Language courses) that earn institutional credit do not apply toward graduation.

MWCC CREDITS APPLIED TOWARD DEGREE — AGE OF CREDITS

Prior comparable courses taken at an accredited US college or university will be applied toward the degree or certificate program. The College reserves the right to not accept prior coursework if significant changes in the area of study have occurred or if current knowledge is necessary for student success. For age limits, please see the catalog page for the specific degree program.

Technical and professional courses that have been completed many years prior to the completion of the academic degree will be evaluated on an individual basis to determine their applicability toward a given degree program. For example, computer coursework or allied health courses may have changed significantly and may no longer satisfy degree requirements due to changes in technology or professional practices. Students should discuss any concerns regarding the applicability of credits earned with their Academic Advisor or Division Dean.

PREREQUISITES

The college catalog description for each class indicates the courses that are required to be taken prior to that course (prerequisites); prerequisites vary by course. A student cannot be enrolled in a course without meeting the listed prerequisites. A grade of I, W, CIP, IP, or F does not satisfy any prerequisite requirements. Consequently, a student with a grade of I, W, CIP, IP, or F may not enter a higher level course in the same discipline.

PRESIDENT’S AND DEAN’S LIST

Students who in a given semester have earned a minimum of 12 semester hours with a grade point average (GPA) of 4.0 qualify for the President’s List. Students who in a given semester have earned a minimum of 12 semester hours with a grade point average (GPA) of 3.30 to 3.99 qualify for the Dean’s List. Foundation courses do not count in GPA calculation.

REPEAT COURSE POLICY

Students may repeat a course one time. Permission to attempt a course for a second time must be approved by an Academic Advisor. Permission to attempt a course for a third time must be approved by the Division Dean. Students may be allowed to receive financial aid funding for one course repeat in order to improve upon a passing grade. Any additional attempts cannot be covered by financial aid. In repeating a course, the higher grade will be used in the calculation of the student’s cumulative grade point average (GPA). A repeated course (along with the original attempt) must be counted as attempted credits in the calculation of the standards of satisfactory progress. The student’s transcript will record both grades with the annotation of repeat. Students may also retake courses at another accredited college. Students must receive a C- or better in order to transfer the credit (not grade points) back to MWCC. In this case, the MWCC grade will no longer be used in the GPA calculation.

SATISFACTORY ACADEMIC PROGRESS — STUDENT FINANCIAL ASSISTANCE RECIPIENTS

In accordance with federal and state policy, the college has established a separate satisfactory academic progress policy for the recipients of federal Title IV student financial assistance and other campus-based assistance. This policy requires students to earn at least 67 percent of all credits attempted and to complete their program in at least 150 percent of the normal time that would
be expected as well as maintaining the required minimum GPA to be considered in Good Standing. The complete financial aid satisfactory academic progress statement can be obtained from the MWCC Financial Aid Office.

**TECHNICAL STANDARDS**

**Technical Standards**

Students are expected to meet the technical standards for enrollment in some college programs and four credit lab sciences. In some cases, assessment and foundation courses may help students meet these standards.

Technical standards must be met with or without accommodations. The college complies with the requirements of Section 504 of the Rehabilitation Act and the Americans with Disabilities Act of 1990; therefore, the college will make a reasonable accommodation for an applicant with a disability who is otherwise qualified. Please see appropriate program page(s) for technical standards.

**Technical Standards for Lab Courses**

These standards apply to the following departments: BIO, CHE, CLS, EAS, EGM, NRD, PHY, PLB, VTE

- Comprehend textbook and lab book material at the college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer format.
- Gather, analyze, and draw conclusions from data.
- Be able to use a microscope, where appropriate, to visualize specimens.
- Be able to function individually and as part of a team, where appropriate.
- Be able to differentiate changes in color, texture, and shape for the purpose of laboratory experimentation.
- Respond to instrumentation alarms and monitor signals for laboratory equipment.
- Perform and understand the operation and manipulation of mechanical equipment.
- Determine by touch (or other means) hotness/coldness, wetness/dryness, or motion/non-motion.
- Use the small muscle dexterity (or other means) necessary to do such things as gloving and operating controls on laboratory instrumentation.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during an emergency situation.
- Be able to articulate, and follow written and verbal instructions.
TRANSFER OF A STUDENT FROM HIGHER LEVEL TO LOWER LEVEL COURSES

Occasionally, an instructor may believe that a student should move to a lower level course in the same discipline. The student and instructor should discuss this matter and include the student’s Academic Advisor. If both the instructor and advisor concur that moving to a lower level course in the discipline is in the best interest of the student, the Division Dean will be contacted for approval and, if appropriate, the student will be placed in a new course dependent on instructor approval. The enrollment in a lower level course should be completed in a timely fashion to ensure appropriate academic progress.

WITHDRAWAL

Withdrawal from Courses

A student may formally withdraw from a course through the last day to withdraw as published in the academic calendar. Students are required to speak to an advisor to withdraw from any course. A grade of “W” will be recorded on the student’s transcript. Please be advised that ceasing to attend a class will be reported to the Records Office by your instructor. This will result in a grade of “F” and may affect your current financial aid award. Course withdrawals will not be processed after the last day to withdraw, noted in the academic calendar for each term/cycle. "F" grades are averaged into the GPA for all students. Any withdrawal may affect progress toward degree and future eligibility for financial aid.

Administrative Action Forms are available for withdrawal after the 60% point of the semester/cycle as a result of extenuating circumstances. A student can obtain an Administrative Action Form from the MWCC Records Office. Documentation of the extenuating circumstances must be submitted with the form for this appeal to be reviewed.

Withdrawal from the College

Students who withdraw from the college are required to have a meeting with an Academic Advisor in person, over the phone, or via email. Students who officially withdraw from the college prior to the last day to withdraw (as published in the academic calendar) will receive a grade of "W". Students who do not officially withdraw from the college are subject to the earned grade. Financial aid recipients withdrawing from the college may owe a refund of federal funds disbursed based upon the approved federal refund policy. Failure to attend/participate does not constitute an official college withdrawal. "F" grades are averaged into the GPA for all students.

Administrative Withdrawals

Administrative withdrawals may occur as a result of extenuating circumstances. Administrative withdrawals may also occur for students who fail to meet prerequisites prior to the start of the term/cycle and during the add/drop period noted on the academic calendar. Students who are administratively withdrawn from a course due to failing a prerequisite will not have the course or a grade on their official record.

Medical Withdrawals

A medical withdrawal is a withdrawal from all classes due to a severe, unforeseen medical condition, either physical or emotional. It is intended for use only in extraordinary circumstances in which unanticipated serious illness or injury prevents a student from continuing to attend or participate in classes. A student must complete and submit an Administrative Action Form and submit it to the Records Office. The College’s refund policy will apply to all medical withdrawals. There may be no refund for medical withdrawals after the refund period has expired. A student may request an exception to the refund policy by including this in the written request as part of the Administrative Action. Exceptions are made on a case-by-case basis. An appeal should contain enough information and supporting documentation to inform the college of the reasons behind the medical withdrawal. Students who submit an appeal are granting permission for relevant college officials to review all information provided in support of the appeal. In cases involving pregnancy, a student should consult with the Title IX Coordinator to assure appropriate consideration of her case under the protections of Title IX.

ASSOCIATE DEGREES, CERTIFICATES, AND OTHER NON-DEGREE OPTIONS

ASSOCIATE DEGREES

<table>
<thead>
<tr>
<th>Academic Program</th>
<th>Program Code</th>
<th>Degree Awarded</th>
<th>Degree Type</th>
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<td>IDSH</td>
<td>Interdisciplinary Studies</td>
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<td>Concentration</td>
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</tr>
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<td>LACE</td>
<td>Liberal Arts and Sciences</td>
<td>A.A.</td>
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<tr>
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<td>A.S.</td>
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<tr>
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<td>A.A.</td>
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<td>A.S.</td>
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<td>A.S.</td>
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<td>Program</td>
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<td>Description</td>
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<td>Medical Laboratory Technology (p. 239)</td>
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<td>Natural Resources (p. 247)</td>
<td>NRD</td>
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<td>A.S.</td>
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<td>Nursing (p. 250)</td>
<td>NU, NUE, NUP</td>
<td>Nursing</td>
<td>A.S.</td>
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<td>Photography Concentration (p. 216)(^1)</td>
<td>MRTP</td>
<td>Media Arts and Technology</td>
<td>A.S.</td>
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<tr>
<td>Physical Therapist Assistant (p. 268)</td>
<td>PTA</td>
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<td>A.S.</td>
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<tr>
<td>Pre-Law Track (p. 202)(^1)</td>
<td>LAWT</td>
<td>Liberal Arts and Sciences</td>
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<td>Pharmacy (p. 272)</td>
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<td>A.S.</td>
</tr>
<tr>
<td>Professional Writing Track (p. 273)(^1)</td>
<td>LAPW</td>
<td>Liberal Arts and Sciences</td>
<td>A.A.</td>
</tr>
<tr>
<td>Theatre Arts Track (p. 282)(^1)</td>
<td>LAT</td>
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<td>A.A.</td>
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<tr>
<td>Veterinary Technology (p. 285)</td>
<td>VTE</td>
<td>Veterinary Technology</td>
<td>A.S.</td>
</tr>
<tr>
<td>Video/Film Concentration (p. 216)(^1)</td>
<td>MRTV</td>
<td>Media Arts and Technology</td>
<td>A.S.</td>
</tr>
</tbody>
</table>

\(^1\) Denotes concentration or track of an associate degree. Concentrations appear on diplomas and transcripts. Tracks appear only on transcripts.
### CERTIFICATE PROGRAMS

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Program Code</th>
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</thead>
<tbody>
<tr>
<td>Accounting/Bookkeeping</td>
<td>CAA</td>
</tr>
<tr>
<td>Administrative Assistant</td>
<td>AAC</td>
</tr>
<tr>
<td>Allied Health</td>
<td>AHC</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>ATC</td>
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<tr>
<td>Business Administration</td>
<td>BUC</td>
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<tr>
<td>Cyber Security</td>
<td>CSC</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>DAC</td>
</tr>
<tr>
<td>Graphic &amp; Interactive Design</td>
<td>GIDC</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>ECE</td>
</tr>
<tr>
<td>Human Services Technician</td>
<td>HSC</td>
</tr>
<tr>
<td>IT Support Specialist</td>
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<td>Law Enforcement</td>
<td>CJLC</td>
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<td>Medical Assisting</td>
<td>MASC</td>
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<tr>
<td>Medical Office</td>
<td>MOC</td>
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<tr>
<td>Nonprofit Management</td>
<td>BNPC</td>
</tr>
<tr>
<td>Paralegal</td>
<td>LAWC</td>
</tr>
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<td>Paramedic Technology</td>
<td>PAC</td>
</tr>
<tr>
<td>Patient Care</td>
<td>PCC</td>
</tr>
<tr>
<td>Personal Training</td>
<td>PTC</td>
</tr>
<tr>
<td>Photography -- Professional</td>
<td>PHO</td>
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<tr>
<td>Practical Nursing</td>
<td>PN</td>
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<tr>
<td>Public Relations</td>
<td>PRC</td>
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<tr>
<td>Software Support</td>
<td>SWC</td>
</tr>
<tr>
<td>Substance Abuse Counseling</td>
<td>SACC</td>
</tr>
</tbody>
</table>

**Other Non-Degree Options**

- ESOL Nurse Assistant Training Course (http://catalog.mwcc.edu/associateddegreesandcertificatelistandotheroptions/%20https://mwcc.edu/academics/noncredit/aet/esol-nurse-assistant-training-course/)
- Emergency Medical Technician Training (p. 92)
- Phlebotomy Training (p. 93)
ALLIED HEALTH

The Allied Health Program at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Allied Health or Associate Degree in Interdisciplinary Studies with an Allied Health Concentration. Upon completion of one of these programs, students will be contributing, productive and successful participants in the health sciences arena. During the course of study, students are able to attain skills leading to entry level employment while completing pre- and co-requisite coursework for MWCC health science programs such as nursing, physical therapist assistant and dental hygiene. The entry level skills include Emergency Medical Technician Training (XEMT), Phlebotomy Training (XPLB) and various career electives embedded within the Allied Health Concentration. In collaboration with Quinsigamond Community College, students can complete their general education coursework then apply to the Radiologic Technologist Program through an articulation agreement.

ALLIED HEALTH CONCENTRATION (IDSH) (FORMERLY GENERAL STUDIES ALLIED HEALTH)

A Degree in Interdisciplinary Studies

This concentration is for those who anticipate applying to a healthcare program, allowing them to complete general education requirements prior to program acceptance. Most of the MWCC healthcare programs have selective admissions requirements. (See Selective Admission Requirements (p. 25)). Acceptance into this Interdisciplinary Studies concentration does not guarantee admission into a selective healthcare program, but does offer an opportunity to explore career options.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>BIO 109, 113, or 152</td>
<td>Biology I (or Life Science for Allied Health or Essentials of Anatomy and Physiology)</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>HEA 106</td>
<td>Exploring Health Careers: Charting a Plan for Success</td>
</tr>
<tr>
<td>MAT 126, 143, or 162</td>
<td>Topics In Mathematics or Statistics or Introduction to Functions &amp; Modeling (or higher)</td>
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Spring

| Career Electives (see list below) | 5-7 |
| PSY 110 | Human Growth And Development | 3 |
| Humanities Elective | 3 |

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
</tr>
<tr>
<td>Career Elective (see list below)</td>
<td>3-4</td>
</tr>
<tr>
<td>General Elective I</td>
<td>3</td>
</tr>
<tr>
<td>General Elective II</td>
<td>3</td>
</tr>
<tr>
<td>General Elective III</td>
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</table>

Spring

| BIO 204 or 205 | Anatomy and Physiology II (or Microbiology) | 4 |
| HEA 201 or ISC 220 | Evidence-Based Practice for Health Professions (or Interdisciplinary Capstone) | 3 |
| General Elective IV | 3 |
| Advanced General Elective | 3 |
| Advanced General Elective | 3 |

Total Credits: 62-67

1. Students contemplating applications to the MWCC Practical Nursing (PN) program should select BIO 152 Essentials of Anatomy and Physiology. All other students should select BIO 109 Biology I or BIO 113 Life Science for Allied Health (formerly BIO 099).
2. Students should select the math course that corresponds with intended major.
3. Humanities Electives: See Elective Courses by Abbreviation (p. 357). Students intending to continue to a baccalaureate degree may consider completing SPC 113.
5. CAPSTONE COURSE
6. An advanced general elective is any 200-level course.
All math and science coursework must be completed within the previous 10 years. Courses greater than 10 years in age will not be applicable to the program of study.

**Career Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>Introduction To Nutrition (formerly NUT101)</td>
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<tr>
<td>CHC 101</td>
<td>Introduction to Complementary Healthcare</td>
<td>3</td>
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<tr>
<td>CHC 102</td>
<td>Foundations of Yoga</td>
<td>3</td>
</tr>
<tr>
<td>CHC 110</td>
<td>Reiki: Traditional Usui Method</td>
<td>3</td>
</tr>
<tr>
<td>EKG 101</td>
<td>EKG Technician: Concepts And Practice</td>
<td>3</td>
</tr>
<tr>
<td>EXS 201</td>
<td>Exercise Science And Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>EXS 203</td>
<td>Exercise Testing And Program Design</td>
<td>4</td>
</tr>
<tr>
<td>HEA 103</td>
<td>Medical Interpretation</td>
<td>4</td>
</tr>
<tr>
<td>HEA 115</td>
<td>Nurse Assistant Theory</td>
<td>3</td>
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<td>HEA 116</td>
<td>Nurse Assistant Practicum</td>
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<td>HEA 117</td>
<td>Acute Care CNA Training</td>
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<tr>
<td>HEA 118</td>
<td>Home Health Aide</td>
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<tr>
<td>HEA 119</td>
<td>Rehabilitation Aide Training</td>
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<tr>
<td>HCC 111</td>
<td>Emergency Medical Technician I (Evening Only)</td>
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<td>HCC 112</td>
<td>Emergency Medical Technician II (Evening Only)</td>
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<td>MAS 201</td>
<td>Medical Machine Transcription</td>
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<td>Introduction To Phlebotomy</td>
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<tr>
<td>PLB 203</td>
<td>Phlebotomy Clinical Practicum</td>
<td>4</td>
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</table>

See Allied Health program student learning outcomes and technical standards.

**Student Success Tips**

Interdisciplinary Studies is a good alternative if you have not decided on a career or transfer program. However, once you have decided, it is suggested that you change your program of study as soon as possible.

Please note that many of the career electives have earlier registration dates that apply to those specific courses. Students who are interested in taking career electives to look to register early and check for deadlines on the semester course listing.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**

Students should become familiar with the admission requirements and application deadline of their intended selective program. Technical standards must be met with or without accommodations.

As part of the coursework in the allied health program, students may be required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical
experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER registration into the course.

The prospective student is encouraged to discuss any concerns with the dean. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program.
ALLIED HEALTH CERTIFICATE (AHC)

This program is an excellent option for individuals seeking employment in the healthcare field.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>Career Electives (see list below)</td>
<td>5-6</td>
</tr>
<tr>
<td>BIO 109, 113, or 152</td>
<td>Biology I (or Life Science for Allied Health or Essentials of Anatomy and Physiology)</td>
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Spring

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<tr>
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<tbody>
<tr>
<td>MAT 126</td>
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<tr>
<td>PSY 105</td>
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<tr>
<td>Career Electives (see list below)</td>
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Total Credits: 22-26

1 Students contemplating applications to the MWCC Practical Nursing (PN) program should select BIO 152 Essentials of Anatomy and Physiology. All other students should select BIO 109 Biology I or BIO 113 Life Science for Allied Health (formerly BIO 099).

See the allied health general information for technical standards.

Career Electives

<table>
<thead>
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<tbody>
<tr>
<td>BIO 101</td>
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<td>CHC 101</td>
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<tr>
<td>CHC 102</td>
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<td>CHC 110</td>
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<td>CHC 202</td>
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<td>CHC 204</td>
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<tr>
<td>EKG 101</td>
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<tr>
<td>EXS 201</td>
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<tr>
<td>EXS 203</td>
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<td>HCC 111</td>
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<td>HCC 112</td>
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<td>HEA 103</td>
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<td>HEA 115</td>
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<td>HEA 118</td>
</tr>
<tr>
<td>HEA 119</td>
</tr>
<tr>
<td>MAS 201</td>
</tr>
<tr>
<td>PLB 101</td>
</tr>
<tr>
<td>PLB 203</td>
</tr>
</tbody>
</table>

See Allied Health program student learning outcomes and technical standards.
Student Success Tips
This is a great opportunity for students to gain entry level employment in the healthcare field prior to matriculating into a selective program. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Special Requirements
Technical standards must be met with or without accommodations.

As part of the coursework in the allied health program, students may be required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER registration into the course.

The prospective student is encouraged to discuss any concerns with the dean. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program.

Transfer Options
This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Interdisciplinary Studies -- Allied Health Concentration degree.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Allied+Health&SearchType=occupation)
EMERGENCY MEDICAL TECHNICIAN TRAINING (XEMT) (NON-DEGREE PROGRAM)

People’s lives often depend on the quick reaction and competent care of emergency medical technicians (EMTs). EMTs provide vital attention, caring for and transporting the sick or injured to medical facilities. In an emergency, EMTs typically are dispatched to the scene, where they determine the nature and extent of the patient’s condition. Following strict rules and guidelines, they give appropriate emergency care and, when necessary, transport the patient.

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HCC 111 Emergency Medical Technician I (Evening Only) 4</td>
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<tr>
<td>HCC 112 Emergency Medical Technician II (Evening Only) 4</td>
</tr>
</tbody>
</table>

Technical Standards EMT

EMT students enrolling in EMT courses (HCC 111 Emergency Medical Technician I (Evening Only) and HCC 112 Emergency Medical Technician II (Evening Only) ) must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed or computer voice format.
- Gather and draw conclusions from data acquired from patient treatment.
- Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
- Lift heavy loads (patients or equipment) that may exceed 100 pounds.
- Determine by touch: hotness/coldness, wetness/dryness, hardness/softness.
- Manipulate gauges and valves associated with, for example, oxygen delivery.
- Read measurement units with or without corrective lenses.
- Manipulate small devices such as syringes, IVs, resuscitation equipment, etc.
- Identify behaviors that would endanger a person's life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Exhibit social skills appropriate to professional interactions.
- Maintain cleanliness and personal grooming consistent with close personal contact.
- Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

Program Length

Typically, these courses can be completed in one semester. HCC 111 Emergency Medical Technician I (Evening Only) meets the first seven weeks of a semester and HCC 112 Emergency Medical Technician II (Evening Only) meets the second seven weeks.

Certification

Upon completion of HCC 111 Emergency Medical Technician I (Evening Only) and HCC 112 Emergency Medical Technician II (Evening Only) with a final grade of 73 percent or better, students are eligible to take the state certification exam. (The practical exam costs $150; and the written exam costs $80, and a $135 host site fee.) Candidates must be at least 18 years of age for either exam. Candidates must complete the state examinations within two years of completing HCC 111 Emergency Medical Technician I (Evening Only) and HCC 112 Emergency Medical Technician II (Evening Only).

Transfer Options

Students can use these credits as career electives in MWCC’s Allied Health programs (AHC and IDSH). Consult with your academic advisor for further information.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Emergency+Medical+Technician&SearchType=occupation)
PHLEBOTOMY TRAINING (XPLB) (NON-DEGREE PROGRAM)

A phlebotomist is skilled in blood collection and the preparation of certain specimens for diagnostic laboratory testing, as ordered by a physician. This program prepares individuals for careers as phlebotomists in various health care settings, such as hospitals, physician offices, HMOs, surgical centers, and independent laboratories. Students study the profession’s history; medical terminology; venipuncture; arterial puncture; microsampling; special blood collection procedures; OSHA and safety procedures involving bloodborne pathogens; basic computer applications; basic pre-analytical and post-analytical laboratory procedures and point of care testing; and electrocardiography procedures. Course objectives and competency are accomplished through formal coursework, laboratory practice, and a clinical practicum (a three week, 40 hours per week daytime commitment). A $150 fee for the practicum will be assessed for PLB 203. Upon completion of this certificate, students are eligible to sit for the certification exam. For more information, please call 978-630-9110.

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLB 101 Introduction To Phlebotomy</td>
</tr>
<tr>
<td>PLB 203 Phlebotomy Clinical Practicum</td>
</tr>
</tbody>
</table>

TECHNICAL STANDARDS ¹ FOR XPLB

Students entering this program, must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Read measurement units with or without corrective lenses.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Walk for a minimum of six hours, not necessarily consecutively.
- Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
- Lift a 40-pound person or assist with a larger person and transfer the person from one location to another.
- Determine by touch: hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on machinery.
- Respond to spoken words, monitor signals, call bells, and vital sign assessment equipment with or without corrective devices.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly, with an appropriate solution, in a crisis situation.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Exhibit social skills appropriate to professional interactions.
- Maintain cleanliness and personal grooming consistent with close personal contact.
- Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

Student Success Tips

This is a great professional development opportunity for those already in the healthcare field. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campuses.
Transfer Options
PLB 101 Introduction To Phlebotomy and PLB 203 Phlebotomy Clinical Practicum can be used as career electives in the Allied Health programs (AHC and IDSH). Consult with your academic advisor for further information on these programs.

Special Requirements
Students must have proof of immunizations, liability insurance, health insurance, a Criminal and Sexual Offender Records Information (CORI/SORI) check, fingerprinting and drug testing. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER registration in the course. Because of these required screening students may be required to register early for these courses please check for specific deadlines on the semesters course listing.

The prospective student is encouraged to discuss any concerns with the dean. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program.

Technical standards must be met with or without accommodations. Due to the limited availability of practicum sites, students will be charged a special fee.

A C+ or higher in PLB 101 Introduction To Phlebotomy is required to participate in PLB 203 Phlebotomy Clinical Practicum. Clinical sites will be awarded based on attendance, grades, professionalism and ability to perform phlebotomy. A student who successfully completes PLB 101 Introduction To Phlebotomy must register for PLB 203 Phlebotomy Clinical Practicum within two years; otherwise, the student must retake PLB 101 Introduction To Phlebotomy.

Career Options/Earning Potential
After passing the American Society for Clinical Pathology (ASCP) certification exam, graduates can become recognized as a Phlebotomy Technician (PBT). The exam fee is $135 through ASCP.

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=Phlebotomist&SearchType=occupation)
RADIOLOGIC TECHNOLOGIST ARTICULATION AGREEMENT

This program is offered through an articulation agreement with Quinsigamond Community College.

Students may complete general education courses at MWCC through enrollment in the Interdisciplinary Studies -- Allied Health Degree or the Allied Health Certificate and apply for acceptance into the Radiologic Technologist program at Quinsigamond Community College (QCC). All radiologic technologist courses must be taken at QCC and students must meet the selective admission requirements of the QCC program.

The following courses may be taken at MWCC:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>BIO 109</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>

An essential member of the health care team, the radiologic technologist provides diagnostic services to patients in hospitals, clinics, private imaging centers, and medical offices. Graduates of this program are eligible to apply for the national certification through examination by the American Registry of Radiologic Technologists (ARRT) and licensing through the Massachusetts Department of Public Health, Radiation Control program. Credentialing by the ARRT certifies the graduate as a Registered Technologist in Radiography — R.T. (R). Licensing by the Massachusetts DPH is required to be employed as a radiographer. QCC’s radiologic technologist program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRC/ERT), 20 N. Wacker Drive, Suite 900, Chicago, IL 60606, telephone 312-704-5300, email mail@jrcert.org. For more information about Quinsigamond Community College courses, prerequisites, and the college itself, visit QCC’s website (http://www.qcc.edu). For specific information about the Rad Tech program, please click here (http://www.qcc.edu/radiologic-technology/).

Applications Deadline

The application deadline is December 15th. Students applying after the deadline will be considered on a space available basis. This selective admissions program requires additional application components. For more information, contact Advising at 978-630-9109.

Special Requirements

In addition to the coursework at MWCC, students must satisfy additional QCC admissions requirements as follows:

- Must have a high school diploma or GED.
- Must take the college placement test to determine math and English levels if no college level courses were previously completed.
- TEAS V required. Please visit the Advising Center for score specifics.
- Math: minimum grade of C+ or better in MWCC MAT 143 Statistics.
- Biology: minimum grade of C+ in BIO 109 Biology I, BIO 203 Anatomy and Physiology I (formerly BIO 199), or BIO 204 Anatomy and Physiology II at MWCC (recommended).
- English: minimum grade of B in ENG 098 Fundamentals of Writing or place into ENG 101 College Writing I.
- Math and science courses must be taken within five years of application.
- Required grade must be earned within two attempts of taking and completing the course.
- Review of program website and career video.
  - Four-hour clinical observation.¹ Click here for more information. (http://www.qcc.edu/radiologic-technology/)

¹ Offered to academically qualified applicants only.
PROGRAM STUDENT LEARNING OUTCOMES FOR AHC, IDSH, XEMT AND XPLB

Program Student Learning Outcomes are those outcomes outlined in the Institutional Effectiveness and Learning Outcomes Assessment section.

Upon graduation from this program, students shall have the ability to:

• Comprehend complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
• Formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic through the completion of a research paper.
• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
• Demonstrate a broad exposure and clear understanding of the various disciplines and the proper foundation to pursue a variety of career choices.

ADDITIONAL PROGRAM STUDENT LEARNING OUTCOMES FOR AHC AND IDSH:

• Demonstrate an understanding of the numerous health related career paths
• Achieve an entry-level certification in healthcare
• Apply health-related knowledge through community service (service learning) and experiential based learning opportunities

TECHNICAL STANDARDS 1 FOR IDSH AND AHC

1 For general information about technical standards and accommodation, see Technical Standards. (p. 82)

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Read measurement units with or without corrective lenses.
• Gather, analyze, and draw conclusions from data.
• Stand for a minimum of two hours.
• Walk for a minimum of six hours, not necessarily consecutively.
• Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
• Lift a 40-pound person or assist with a larger person and transfer the person from one location to another.
• Determine by touch: hotness/coldness, wetness/dryness, and hardness/softness.
• Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on machinery.
• Respond to spoken words, monitor signals, call bells, and vital sign assessment equipment with or without corrective devices.
• Identify behaviors that would endanger a person’s life or safety and intervene quickly, with an appropriate solution, in a crisis situation.
• Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
• Exhibit social skills appropriate to professional interactions.
• Maintain cleanliness and personal grooming consistent with close personal contact.
• Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

ART

The Art Department offers an Associate Degree in Art and an Art concentration in the Liberal Arts and Sciences program. The Associate Degree in Art is geared for students who want to gain employment in art or transfer to a four-year institution majoring in Art. The Liberal Arts Degree with an Art concentration is geared for students who want to transfer to a four-year institution and minor in Art.
ART (ART)

This degree prepares students for transfer to bachelor’s degree programs such as fine art, design, art education, illustration, animation, fashion design, art therapy, art history, museum studies, art conservation, architecture, and landscape design. Students learn the fundamental principles of art and design, while exploring a broad range of media in drawing, painting, sculpture, and ceramics, and learn basic digital tools required for success. Volunteer and service learning opportunities related to art are offered. Students participate in an annual art exhibition. This program includes the general education requirements for transfer to most four-year colleges and universities. Designated courses can be substituted to meet the MassTransfer (http://www.mass.edu/masstransfer/) agreement.

Courses are taught in small groups. Art professors are committed to individual student success and assist with portfolio development and transfer applications.

### Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 263</td>
<td>Drawing I</td>
</tr>
<tr>
<td>ART 251</td>
<td>Two-Dimensional Design</td>
</tr>
<tr>
<td>ART 252</td>
<td>Three-Dimensional Design</td>
</tr>
<tr>
<td>ART 259</td>
<td>Ceramics I</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>ART 264</td>
<td>Drawing II</td>
</tr>
<tr>
<td>ART 253</td>
<td>Painting I</td>
</tr>
<tr>
<td>ART 109</td>
<td>Art History I</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
</tr>
</tbody>
</table>

### Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 269</td>
<td>Drawing III</td>
</tr>
<tr>
<td>ART 271</td>
<td>Sculpture I</td>
</tr>
<tr>
<td>ART 254</td>
<td>Painting II</td>
</tr>
<tr>
<td>ART 110</td>
<td>Art History II</td>
</tr>
<tr>
<td>Art Elective (see list below) or Lab Science Elective</td>
<td>3-4</td>
</tr>
</tbody>
</table>

### Spring

| Art Elective (see list below) or Non-behavioral Social Science Elective | 3 |
| Interdisciplinary Professional or Art Elective (see lists below) or Social Science Elective | 3 |
| Science Elective | 3-4 |
| Behavioral Social Science Elective | 3 |

**Total Credits:** 60-62

1. Choose a math course higher than MAT 126 if preparing for MassTransfer (http://www.mass.edu/masstransfer/).
2. Lab Science Electives (must be a 4 credit course): See Elective Courses by Abbreviation (p. 357).
3. Choose the lab science elective if preparing for MassTransfer (http://www.mass.edu/masstransfer/).
4. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
5. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
6. Choose the non-behavioral social science elective if preparing for MassTransfer (http://www.mass.edu/masstransfer/).
7. Choose the social science elective if preparing for MassTransfer (http://www.mass.edu/masstransfer/).
8. Science Electives (may choose a 3- or 4-credit course): See Elective Courses by Abbreviation (p. 357).
Art Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 241</td>
<td>Watercolor Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 254</td>
<td>Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 257</td>
<td>Painting III</td>
<td>3</td>
</tr>
<tr>
<td>ART 260</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 272</td>
<td>Sculpture II</td>
<td>3</td>
</tr>
<tr>
<td>ART 273</td>
<td>Sculpture III</td>
<td>3</td>
</tr>
<tr>
<td>ART 284</td>
<td>Ceramics III</td>
<td>3</td>
</tr>
<tr>
<td>ART 286</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 287</td>
<td>Printmaking II</td>
<td>3</td>
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</table>

Interdisciplinary Professional Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
<td>3</td>
</tr>
<tr>
<td>GID 109</td>
<td>Introduction To Web Design (Formerly CGD 240)</td>
<td>3</td>
</tr>
<tr>
<td>GID 115</td>
<td>Digital Illustration (Illustrator) (Formerly CGD 105)</td>
<td>3</td>
</tr>
<tr>
<td>GID 216</td>
<td>Motion Graphics for Interactive Media</td>
<td>3</td>
</tr>
<tr>
<td>MRT 110</td>
<td>Fundamentals of Video Production</td>
<td>3</td>
</tr>
<tr>
<td>PHO 115</td>
<td>Introduction To Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO 215</td>
<td>Advanced Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>THE 184</td>
<td>Technical Theatre Practicum I (Formerly THE284)</td>
<td>3</td>
</tr>
</tbody>
</table>

See Art program student learning outcomes and technical standards.

**Campus**

Gardner Only.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**MASSTRANSFER**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

**Special Requirements**

Technical standards must be met with or without accommodations.

**Career Options/Earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=art&SearchType=occupation)
ART CONCENTRATION (LART)
A DEGREE IN LIBERAL ARTS AND SCIENCES

This program provides a broad foundation in academic studies with an emphasis in art and design. This degree includes important fundamental courses recognized by transfer institutions and industries that value creative thinking and innovation. Students transfer to four-year programs where an art background is necessary but not the sole focus, such as art therapy, art history, museum studies, art conservation, art administration, non-profit management, or education. The Liberal Arts and Sciences includes the MassTransfer Block.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 263 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 252 Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 251 Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143 or 163 Statistics or Pre-Calculus (or higher)</td>
<td>3-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 264 Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 259 Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 109 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Social Science Elective</td>
<td>3</td>
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</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 271 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 110 Art History II</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113 Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective 1</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science Elective (see list below)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 253 Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 290 Advanced Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Non-behavioral Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective (see list below)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 61-62

1 Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2 Non-Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3 Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
4 Literature Electives: See Elective Courses by Abbreviation (p. 357).
5 Science Electives: See Elective Courses by Abbreviation (p. 357).

See Art program student learning outcomes and technical standards.

Campus
Gardner Only.

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

MASSTRANSFER

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)
Special Requirements
Technical standards must be met with or without accommodations.

PROGRAM STUDENT LEARNING OUTCOMES FOR ART AND LART
Upon graduation from this program, students shall:

• Acquire the skills and knowledge necessary to transfer to an art program at a four-year college or university.
• Demonstrate an understanding of the creative process.
• Demonstrate an understanding of the language of visual design (i.e., basic design theory, design elements, composition, etc.).
• Demonstrate an understanding of the properties of various media (i.e., clay, oils, watercolor, inks, charcoal, etc.).
• Demonstrate an awareness and understanding of the sources, history, and development of art.
• Demonstrate an understanding of the aesthetic and technical aspects of the studio arts.
• Possess the ability to develop a professional portfolio for transferring to a four-year institution, as well as individual portfolios for each art course.
• Possess the ability to analyze career/transfer opportunities and assess their own skills and abilities in relation to their future.
• Possess the ability to perform critical thinking.

CAPSTONE COURSE FOR LART
ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

TECHNICAL STANDARDS FOR ART AND LART
For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Stand, stoop and walk for a minimum of four hours.
• Walk for a minimum of six hours, not necessarily consecutively.
• Lift 25 pounds to waist high, shoulder high, and above the head.
• Comprehend the spoken word.
• Function cooperatively in a studio learning environment where limited space, equipment, and tools are shared.
• Students with disabilities should contact the Art Department for accommodations.

ART 101. Introduction To Painting. 3 Credits.
This studio course familiarizes the non-art major with the art of painting in oils and/or acrylics. Students learn basic fundamentals of color mixing and applying paint while painting from still life set-ups, portrait models and other typical subject matter. Discussions and reproductions introduce students to relevant painters and their work and a general appreciation of the craft of painting. Some art materials must be purchased for this course. Not open to art majors. Prerequisite: None.

ART 103. Introduction To Sculpture. 3 Credits.
This studio course introduces principles of sculpture and three-dimensional design to the student with little or no previous art experience. The emphasis will be on learning to skillfully manipulate different materials and to develop an understanding of art concepts as they apply to the practice, viewing, and discussion of art. The student will gain an appreciation for three-dimensional work as he/she directly experiences the process inherent in creating art. A range of media will be used. Not open to art majors. Prerequisite: None.

ART 105. Introduction To Drawing. 3 Credits.
This course is designed as an introductory-level course for those with little or no previous experience in drawing. Its aim is to expose the student to a range of media and working approaches to the various problems of drawing. The task of learning to see will be met as a combination of close observation and spontaneous response to the media of drawing. In class, as well as out of class, drawings will be initiated by the students themselves. Subjects will include landscape, still life, interiors, portrait, and the clothed human figure. Prerequisite: None.
ART 109. Art History I. 3 Credits.
This course is a chronological survey of the visual arts of the Western World from prehistoric times to the Renaissance. The course presents significant sculpture, architecture, and paintings of this period through slides, films, textual reproductions, and actual museum pieces. Lectures include critical, visual, and technical analysis of these works, biographical sketches of contributing artists, and relevant cultural and historical details that influenced the art of these centuries. Works of art from non-Western cultures will also be studied. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Spring.

ART 110. Art History II. 3 Credits.
This course is a chronological survey of the visual arts of the Western World from C.E. 1300 to 1950. The course presents significant sculpture, paintings, and architecture of these years through slides and textual reproductions. Lectures include critical, visual, and technical analysis of these works, biographical sketches of the contributing artists, and the relevant cultural and historical events and personages that influenced and were influenced by the art of these centuries. Chapters on Islamic, Asian, African, North & South American Art focus on issues of cultural diversity. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Fall.

ART 212. Portfolio and Digital Tools. 3 Credits.
This capstone course provides the student with practical skills and knowledge essential in preparing for future education or a career in the visual arts, articulating their identity and place in the arts. Students will critique and assess accomplishments to develop a comprehensive portfolio of work, after individual review with each art faculty. Program competencies and learning outcomes evaluated. Students will focus on developing individual portfolios for their pursuits, researching and preparing application materials for bachelor's degree programs, and opportunities in the arts, creating an artist's statement and resume, and advancing written and oral communications skills. Students are introduced to digital tools necessary for success. Documenting work, use of a digital camera, an introduction to Photoshop, and creating promotional materials will be presented. Students will develop a final series of work to strengthen or enhance their final portfolio and create an artists' presentation in PowerPoint of final work and aspirations. Required course for ART and LART major. Prerequisites: ART 263, ART 264, and ART 269. Spring.

ART 241. Watercolor Painting. 3 Credits.
This course explores the basic techniques of working in the medium of watercolors. Exercises using transparencies and opaque techniques will be assigned. Slides of historical works by masters of the medium will be screened and discussed. Prerequisites: ART 105 or ART 263.

ART 251. Two-Dimensional Design. 3 Credits.
Two-Dimensional Design presents the principles of expressive design on flat surfaces through directed activities in painting, drawing, collage, and digital imaging. Students practice the use of line, shape, color, value, and other design fundamentals. Lecture, critique, and discussion further engage students in the exploration of artwork from several cultures in discovering what constitutes good design. Students will need to buy most of the course materials. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement); ART 263 is recommended.

ART 252. Three-Dimensional Design. 3 Credits.
This course provides students with the processes to create three-dimensional shapes. The first part of the course is a study of geometric and organic forms. By using materials such as cardboard, styrofoam, plaster, and clay, forms are constructed that explore the relationship of parts to the whole in their spatial context as the basis of good design. Additional problems stress the tectonic aspects of design and how they are used to create sculptural forms. An assigned portrait study in clay, along with procedures for plaster molding and casting, will be completed by the end of the course. Artists and approaches will be introduced from western and non-western perspectives. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement); ART 263 is recommended.

ART 253. Painting I. 3 Credits.
Painting I offers basic instruction in oil and/or acrylic painting and is intended for art majors and other students with an art background. Class and homework assignments allow the student to practice mixing colors and manipulating paint. Accurate translation of observed color, form, and space is emphasized. Personal expression is encouraged. Students also learn about brush selection, surface preparation, pigment composition, and the use of various mediums. Building and stretching a canvas and preparing a painting for exhibition will be presented. Lectures, discussions and critiques familiarize students with the history of painting from various cultures and what constitutes good painting. Students are responsible for supplying most of the materials needed for the course. Prerequisites: ART 263 or permission of division dean. Spring.

ART 254. Painting II. 3 Credits.
Painting II is a continuation of ART 253 Painting I. Students paint from the human figure, interior spaces, and the surrounding landscape in an effort to 1. better understand the relationship of light, color, form, and space; 2. improve their ability to translate a three-dimensional experience onto a flat surface; and 3. expand their transfer portfolios. Outside of class, this course encourages the development of more personal motifs in order to further explore painting as an expressive medium. Discussions and lectures acquaint the students with the paintings and artists of varying cultures and times. Students must participate in an exhibit of work at semester's
end. Students are responsible for supplying most of the materials needed for this course. Prerequisite: ART 253 or permission of division dean. Fall.

ART 257. Painting III. 3 Credits.
Painting III is for advanced students interested in pursuing their personal interests in oil painting. Emphasis is on the individual work of the student, thematic development, and aesthetic considerations unique to the painting process. Painting III is recommended for the student who is motivated, directed, and able to work independently. A small exhibition of work in the school Gallery is required. Prerequisites: ART 254 and permission of the division dean.

ART 259. Ceramics I. 3 Credits.
Students create functional and sculptural work in clay as they develop skills in hand-building methods (pinch, coil, drape, and slab) and end with an introduction to the potter’s wheel. Work from Africa, indigenous Americans, and historical and contemporary ceramists, along with ancient firing practices, will be presented. The course may include different clay bodies and glazes, as well as firing the work in outdoor kilns and the electric or gas kilns. Individual expression will be encouraged, as the student gains an appreciation for the history of ceramics and for clay as a unique medium. Outside reading assignments and keeping a sketchbook throughout the semester will be required. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement).

ART 260. Ceramics II. 3 Credits.
This course focuses on developing skills on the potter’s wheel to create functional forms (cylinders, bowls, jars, mugs, etc.) and hand-building sculptural clay pieces of a large scale. Ceramic work from the Far East, the Mediterranean, Europe and work by historical and contemporary ceramists will be presented. Individual expression will be encouraged as students visualize and build pieces that challenge their skills. Different clay bodies, glazes, glaze applications, and decorative techniques will be explored. The course may include firing in outdoor trash barrel kilns, a raku firing, or using the electric and gas kilns. Outside reading assignments and keeping a sketchbook throughout the semester will be required. Prerequisite: ART 259 or permission of division dean. Spring.

ART 263. Drawing I. 3 Credits.
Students explore a wide range of media and working processes common to the art of drawing as well as the historical context on which contemporary views of drawing are based. Assignments will center on the ability to translate objects in actual three-dimensional space onto a flat two-dimensional surface as opposed to drawing from photographs. Learning to see will be a primary focus of class work. All aspects of style and technique will be discussed or demonstrated. Drawing from the human figure will be introduced. May include clothed and nude models. Artists and approaches will be introduced from western and non-western perspectives. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement).

ART 264. Drawing II. 3 Credits.
This course is aimed at developing the artistic areas that were begun in ART 263 Drawing I so that students can achieve an overall confidence level with a range of different media and approaches. Areas of concentration will focus on composition, perspective, and illusionary, as well as two-dimensional aspects of space. Artists and approaches will be introduced from western and non-western perspectives. A significant amount of time will be spent developing drawings from the human figure from nude and clothed models. Portfolio development in this area will be encouraged with critiques aimed at enhancement of individual drawing strengths. Assigned problems beyond class time will focus on individually initiated work aimed at a clearer definition of the student’s own goals in drawing. Prerequisite: ART 263 or permission of division dean. Spring.

ART 269. Drawing III. 3 Credits.
This course is designed for the art student to develop advanced level drawings and to create work for a portfolio. The student should be capable of individually directed work in drawing and have completed all other drawing courses. Emphasis is on thematic development, the individual work of the student, and aesthetic considerations unique to the drawing process. Clothed and nude models may be used. Cutting a mat and preparing a work for exhibition will be presented. Prerequisite: ART 264. Fall.

ART 271. Sculpture I. 3 Credits.
The aim of this course is to teach sculptural working principles that hold true of good sculpture, whether from earlier traditions or more modern ones. The course is structured with assigned problems that will engage the student in aspects of the traditional figure study in clay using nude models, and assignments aimed at exploring the (object) aspect of form and the varying spatial aspects that form its context. Subtractive techniques will be introduced. A wide variety of sculptural examples from western and non-western cultures in prehistory or modern era will act as a source of sculptural precedent for individual initiatives in problem solving. The tectonic or building aspects of construction involving weight, mass, and durability will be put on par with the intellectual aspect of the creative process. Success in the course will depend on both. Prerequisites: ART 252 or permission of the division dean. Fall.

ART 272. Sculpture II. 3 Credits.
This course is structured so that students who have begun to develop skills in the sculptural building processes can practice and further refine these skills at the higher level with increased creative problem solving. More attention will be paid to work from the model. Problems will be given to expand the student's familiarity with a broader range of material and ideas. An option to learn subtractive
techniques in wood and stone will be made available. Students will learn lost wax bronze casting procedures. Prerequisite: ART 271 or permission of the division dean. Spring.

**ART 273. Sculpture III. 3 Credits.**
This course is for the advanced student who is in pursuit of creating work for a portfolio, after completing all other course offerings in sculpture. Emphasis is on the individual work of the student, thematic development, and aesthetic considerations unique to the sculpture process. Recommended for the student who is motivated, directed, and able to work independently. Prerequisites: ART 272, and permission of the division dean.

**ART 284. Ceramics III. 3 Credits.**
This course is for the advanced student who is in pursuit of creating work for a portfolio, after completing all other course offerings in ceramics. The student is expected to create a thematic body of ceramic work and further develop their technical skills and conceptual abilities. Further exploration of clay bodies, glazes, kiln firings, and aesthetic considerations unique to the ceramic process will be presented. The student should have some previous knowledge of working with clay, understand methods of hand building, and have basic skills using the potter's wheel. The student is expected to be self-motivated, able to work independently, and to have specific goals. In addition to creating the body of work in individual proposal that is developed with the instructor, the student will complete an assignment on glaze chemistry, and give an oral presentation on his/her research of a significant potter, ceramist, or sculptor. Prerequisites: ART 260 and permission of the division dean.

**ART 285. Ceramics IV. 3 Credits.**
This course is a continuation of ART 284 Ceramics III and is designed for the art student interested in further advancing skills for working with clay and creating advanced level work for a professional or transfer portfolio. The student should be capable of individually directed work and have completed all other ceramic courses. Further exploration of clay bodies, glazes, glaze chemistry, kiln firings, and aesthetic considerations unique to the ceramic process will be presented. The course will include research, oral presentations, a glaze chemistry project relevant to the student's own work and critiques. Emphasis will be on the individual work of the student. Prerequisites: ART 284 and permission of the division dean.

**AUTOMOTIVE TECHNOLOGY**
The Automotive Technology Program at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Automotive Technology or Associate Degree in Automotive Technology. Upon completion of either program, students are prepared for positions in automotive and other related fields. During the course of study, students will develop skills and competencies in diagnostics and repair. Students will gain knowledge to prepare for individual ASE Certification.

**AUTOMOTIVE TECHNOLOGY DEGREE (ATD)**
The Automotive Technology Degree prepares you for a variety of technical and managerial positions in transportation-related industries. MWCC’s comprehensive program in computerized automotive service technology is not manufacturer specific. The combination of specialized and general training gives students maximum employment flexibility. According to the Bureau of Labor Statistics, opportunities are expected to be very good for those who complete formal automotive training. The Automotive Technology program has National Certification at the MLR (maintenance and light repair) level in the areas of brakes, electrical/electronic systems, engine performance, engine repair, automatic transmissions and transaxles, manual drive train and axles, heating and air conditioning and suspension and steering from the National Automotive Technicians Education Foundation (NATEF), in accordance with standards developed and recognized by the National Institute for Automotive Service Excellence (ASE).

### Year 1

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>AUT 120 Performance And Diagnosis I</td>
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<tr>
<td>AUT 122 Brakes</td>
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<td>AUT 123 Electrical Systems I</td>
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<tr>
<td>AUT 110</td>
<td>Introduction to Automotive Technology</td>
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<tr>
<td>AUT 121</td>
<td>Performance And Diagnosis II</td>
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<td>AUT 127</td>
<td>Suspension And Steering</td>
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<td>MGT 110</td>
<td>Introduction to Business</td>
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<td>ENG 101</td>
<td>College Writing I</td>
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<td>Engine Repair</td>
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<td>PHY 101</td>
<td>Introduction To Physical Science</td>
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<td>AUT 204</td>
<td>Heating And Air Conditioning</td>
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<td>AUT 205</td>
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<td>MAT 126</td>
<td>Topics In Mathematics</td>
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**Total Credits:** 77.5

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1. Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
3. Liberal Arts and Science Electives (includes the Humanities, Sciences, Mathematics and Social Sciences): See Elective Courses by Abbreviation (p. 357).
4. AUT courses greater than five years in age will not be applicable to the program of study.

**Campus**

Beginning Fall Semester 2020, this program will be offered at an offsite location approximately one mile from the Gardner Campus. For more details please contact Admissions at 978-630-9110 or admissions@mwcc.mass.edu.

**Student Success Tips**

Students enrolled in the Automotive Technology Degree curriculum may gain work experience through cooperative education.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**

Students are required to purchase safety glasses, safety shoes, and a basic tool set. Please see Required Automotive Tools (p. 106). Also, students will be required to enroll in late afternoon classes. Technical standards must be met with or without accommodations.

**Career Options/earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=automotive+technology&amp;SearchType=occupation)

**AUTOMOTIVE TECHNOLOGY CERTIFICATE (ATC)**

This program will prepare you for a variety of positions in transportation-related industries. MWCC’s comprehensive program in computerized automotive service technology is not manufacturer specific; the combination of specialized and general training gives students maximum employment flexibility. According to the Bureau of Labor Statistics, opportunities are expected to be very good for those who complete formal automotive training. The Automotive Technology program has National Certification at the MLR (maintenance and light repair) level in the areas of brakes, electrical/electronic systems, engine performance, engine repair, automatic transmissions and transaxles, manual drive train and axles, heating and air conditioning and suspension and steering from the National
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<td>Suspension And Steering</td>
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<td>AUT 205</td>
<td>Automotive Cooperative</td>
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<tr>
<td>AUT 131</td>
<td>Automatic Transmissions</td>
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<tr>
<td>AUT 204</td>
<td>Heating And Air Conditioning</td>
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</tbody>
</table>

Total Credits: 52.5

1 Courses greater than five years in age will not be applicable to the program of study.

**Campus**

Beginning Fall Semester 2020, this program will be offered at an offsite location approximately one mile from the Gardner Campus. For more details please contact Admissions at 978-630-9110 or admissions@mwcc.mass.edu.

**Special Requirements**

Students are required to purchase safety glasses, safety shoes, and a basic tool set. Please see Required Automotive Tools (p. 106). Also, students will be required to enroll in late afternoon classes. Technical standards must be met with or without accommodations.

**Transfer Options**

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Automotive Technology Degree.

**Career Options/Earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=automotive+technology&amp;SearchType=occupation)

**PROGRAM STUDENT LEARNING OUTCOMES FOR ATD AND ATC**

Upon graduation from this program, students shall have demonstrated the ability to:

- Diagnose and repair steering and suspension systems.
- Diagnose and repair wheel alignment, wheel, and tire.
- Diagnose and repair hydraulic system.
- Diagnose and repair brake drum and disc.
- Diagnose and repair power assist units.
- Diagnose and repair wheel bearings, parking brakes, and electrical.
- Diagnose general electrical system.
- Diagnose and service battery.
- Diagnose and repair gauges, warning devices, and driver information systems.
- Diagnose and repair horn, wiper washer, and accessories.
- Perform general engine diagnosis and related service.
• Diagnose and repair ignition and fuel/exhaust systems.
• Diagnose and repair emission control systems.
• Remove and reinstall engine.
• Diagnose and repair cylinder head, valve train, engine block, lubrication, and cooling systems.
• Diagnose and repair clutch, transmission, trans axle, drive shaft, universal joint, rear axle, and 4-wheel drive component.

TECHNICAL STANDARDS ¹ FOR ATC AND ATD

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Utilize laptop and desktop computers for diagnostic and instructional purposes.
• Stand, stoop, and walk for a minimum of three hours.
• Lift 25 pounds to waist high, shoulder high, and above the head.
• Manipulate small objects without dropping or damaging them.
• Determine by touch: hotness/coldness, wetness/dryness, or motion/non-motion.
• Work indoors in the presence of loud, repetitious noise levels (not to exceed regulatory standards).
• Function in a standard workplace environment that contains monitored hydrocarbons and vehicle emission vapors.

Required Automotive Tools

The Automotive Program at MWCC is among many designed for immediate career entry. Industry practice requires automotive technicians to enter the workplace equipped with their own set of automotive tools. For this reason, MWCC has included the cost of the required automotive tool kit in the fees for the Automotive Program. This new policy is effective for all incoming students Fall 2016 and thereafter. It is extremely important that students understand their financial obligation in regards to ownership of the automotive tool kit. Students who withdraw from the automotive program may not return the tool kit to the college and will not be refunded the cost of the automotive tools.

Students may only remove the automotive tool kits from MWCC property once their student account is paid in full. Before receiving the automotive tool kit, students must make payment arrangements and will be required to sign a Statement of Understanding confirming their financial responsibility and ownership of the automotive tools.

A community college education is the most affordable option in higher education today. Many community college students are eligible for financial aid, and in some cases, a combination of grant and loan funding may be utilized to cover part or all of the cost of mandatory tools. For exact pricing please visit the Cost of Attendance section of the catalog (p. 38).

AUT 110. Introduction to Automotive Technology. 3 Credits.
Introduction to Automotive Technology examines the role and opportunities of the automotive service professional in today’s automotive industry. Shop environment, tools/equipment, and personal safety are emphasized. Students will experience typical job-entry service skills and vehicle maintenance inspections. The necessary resources providing service information are examined. An introduction of vehicle operation and support systems will be presented. This course provides the background information required to continue in the automotive technology program.

AUT 120. Performance And Diagnosis I. 5.5 Credits.
Students will learn to use diagnostic test equipment for quick and efficient problem solving. Engine vacuum testing, compression testing, cylinder leak-down testing, and cylinder power balance testing will be required. Students will learn to use an infrared analyzer to understand the effects on pollution that an improperly running engine creates. Principles of doing a tune-up will be explored. Ignition systems including point type, electronic, and distributorless systems will be covered. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

AUT 121. Performance And Diagnosis II. 5 Credits.
This course is a continuation of AUT 120 Performance and Diagnosis I. Students will learn about the various fuels used today and the problems associated with them. Fuel delivery systems starting with the carburetor through today’s fuel injection systems will be studied. Emission control systems such as PCV, EGR, EFE, AIR, and the catalytic converter will be examined along with the pollutants they reduce. Computerized engine controls along with their sensors will be tested and examined for proper performance. On
Board Diagnostics II will be discussed and explored. Students will complete sample questions in preparation for the ASE Certification exams. Prerequisite: AUT 120 or permission of division dean. Spring.

AUT 122. Brakes. 5 Credits.
This course is designed to teach students various brake systems and repair. Students will study master cylinders, proportioning valves, metering, and disc brake repair and diagnosis. Students will learn about power assist units and wheel bearing diagnosis and repair. Anti-lock brake systems will be studied and tested as well as brake fluids and brake bleeding. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

AUT 123. Electrical Systems I. 4.5 Credits.
This course covers the fundamentals of electricity and magnetism, along with exploring the relationship of volts, ohms, and amps. The course will apply these two series, parallel, and series-parallel circuits. Semiconductor components such as diodes and transistors will be explored. Students will learn to use digital volt-ohm meters and oscilloscopes. Battery design and testing will be explored along with starting and charging systems. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

AUT 124. Electrical Systems II. 4.5 Credits.
This course is a continuation of AUT 123 Electrical Systems I. Using wiring diagrams, students will examine headlights, taillights, and parking lights for proper operation. Stoplights, turn signals, hazard lights, and back-up light circuits will be examined and repaired. The operation of the power door locks and power windows will be examined. Electrical circuits associated with dashboards, gauges, printed circuits, and digital instrument clusters will be studied along with various other electrical circuits. Prerequisite: AUT 123 or permission of division dean. Spring.

AUT 125. Engine Repair. 6 Credits.
The lecture and lab periods for this course cover designs, nomenclature, and theory of operation of internal combustion engines, including valves and operating mechanism, piston and connecting rod assembly, crankshaft and bearing, lubrication system, cooling system, crankcase ventilation, engines, fuels, and lubricants. This course also includes an introduction to the study of the Wankel, diesel, and other propulsion systems. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite).

AUT 127. Suspension And Steering. 5 Credits.
This course is designed to teach students the various suspension components and systems. Students will learn how to inspect and replace steering components. Rack and pinion steering gears, vehicle riding height, body sway, front and rear end alignment, and tire problems will be studied. Prerequisites: AUT 120 or permission of division dean. Spring.

AUT 130. Manual Transmissions. 4 Credits.
This course covers the components and operation of manual transmissions, transaxles, clutches, differentials, drive shafts, transfer cases and all-wheel / four-wheel drive systems. Operating system principles pertaining to hydrodynamics, fluid couplings, clutch assemblies, and shift controls will be discussed. Diagnostic techniques, component, and system testing as well as maintenance procedures are accomplished in the lab sessions. Ancillary drive train components such as drive shafts, CV joints, differentials, and transfer cases are explored. Prerequisites: AUT 125. Spring.

AUT 131. Automatic Transmissions. 4 Credits.
This course is the study of the construction and operation of automatic transmissions and transaxles. Emphasis will be on the diagnostic techniques of electrical, hydraulic and mechanical systems. The disassembly and reassembly of selected transmissions will strengthen student understanding. Students will inspect, measure and test the transmission as required for successful performance. Prerequisite: AUT 125.

AUT 204. Heating And Air Conditioning. 3 Credits.
This course is designed to teach students about the theory and operation of heating and air conditioning systems. Students will learn about heat transfer, temperature pressure relationships, and control systems. The course will cover the theory and operation of air conditioning systems, air management delivery systems, and electronic climate control systems. The course will prepare students to take the ASE test A-7 Heating and Air Conditioning Systems. Prerequisites: FYE 101, MAT 092 (or corequisite), RDG 098 or placement.

AUT 205. Automotive Cooperative. 3 Credits.
This is the Automotive Degree Program’s required internship, offered during the summer semester only. This internship is designed to help you relate your college courses to your career goals. This provides students with hands-on entry-level experience at a new car dealership or an independent repair facility or repair shop. Students are required to work at a facility approved by the Automotive Program Department Chair. Periodic supervisor evaluations based on performance and other criteria related to successful employment will be completed and reviewed by the co-op coordinator and site supervisor and will be the basis for the final grade. Tools identified on the student tool list are required at the co-op site. A minimum grade of C is required to continue toward degree completion. This
three-credit cooperative course requires a minimum of 120 hours automotive work at an approved facility. Prerequisite: Successful completion of 25 AUT credits. Summer.

**BIOLOGY**

The Biological Science degree at Mount Wachusett Community College provides students with the opportunity to earn an Associate’s in Science Degree in Biology. Upon completion of the program, students are prepared for the rigors of a four-year institution to complete a baccalaureate degree. The Biological Science degree offers a student the opportunity to explore biology, while completing a core curriculum. Students will gain knowledge in a variety of disciplines including math, science, the humanities and social science.

**BIOLOGY (BIO)**

This program is designed to prepare students to transfer in the biological sciences with an A.S. degree and Mass Transfer benefits. It will give the students the first two years of a typical biology program so that they are well-prepared for transfer. It may also be used as a pre-professional program for aspiring physicians, veterinarians, dentists and pharmacists. Since many of the classes are two-semester sequential courses, it is recommended that students start this program in the fall.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>CHE 107</td>
<td>General Chemistry I</td>
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<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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<tr>
<td>MAT 162</td>
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<td>CHE 108</td>
<td>General Chemistry II</td>
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<td>BIO 110</td>
<td>Biology II</td>
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#### Year 2

#### Fall

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<td>PSY 105</td>
<td>Introduction To Psychology</td>
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#### Spring

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<td>BIO 210</td>
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**Total Credits:** 62

1. May take MAT 162 or higher.
2. Students are strongly encouraged to meet with their advisor before registering for a professional elective.
3. Students interested in biotechnology should take BIO 205 Microbiology and BIO 215 Cell Biology for Professional Electives.
4. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
5. Social Science Electives: See Elective Courses by Abbreviation (p. 357).

### PROFESSIONAL ELECTIVES

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<td>PHY 120</td>
<td>Physics for Engineering and Science I</td>
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<tr>
<td>BIO 205</td>
<td>Microbiology</td>
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</table>
See Biology student learning outcomes and technical standards

**Campus**
This program is offered on the Gardner campus only.

**Transfer Options**
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**MASSTransfer**
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify. Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

**PROGRAM STUDENT LEARNING OUTCOMES FOR BIO**
Upon completion of the Associates in Science in Biology, students will be able to:

1. Transfer to four-year programs.
2. Illustrate an understanding of biological systems and evolutionary processes spanning all ranges of biological complexity, including atoms, molecules, genes, cells and organisms.
3. Demonstrate both written and oral communication skills using scientific terminology.
4. Carry out laboratory protocols while using appropriate laboratory equipment.
5. Work in collaboration with other students in a scientific environment.
6. Apply mathematical concepts to solving quantitative scientific problems.

**TECHNICAL STANDARDS FOR BIO**
Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Differentiate by touch: hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
- Respond promptly to spoken words, as well as monitor signals and instrument alarms.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Manipulate small parts, and make fine hand adjustments to machines and test equipment.
- Operate a computer.
MOUNT WACHUSETT COMMUNITY COLLEGE

BIO 101. Introduction To Nutrition (formerly NUT101). 3 Credits.
This course introduces the broad aspects of nutrition as it applies to human existence. Included in the topical analysis are items related to digestion, essential nutrients, energy balance, vitamins, water, fitness, and weight control, as well as a discussion of changing needs of individuals as they age or become ill. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 102. Introduction To Forestry. 4 Credits.
This course provides a general introduction to the practice and profession of forestry. This course will not result in becoming a forester but will equip participants with the tools to understand forest ecology and forest management decisions. This course will allow you to communicate with foresters and understand forests’ complexity, their values, and the factors influencing forest stewardship. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

BIO 103. Human Health And Disease. 3 Credits.
This lecture-based course describes the basic structure and function of most organ systems within the context of some common human diseases. Homeostasis, the dynamic equilibrium in which the internal environment of an organism is maintained fairly constant, is the theme of this course that allows the understanding of certain common diseases. Students with little science background will investigate human disease within a personal context. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

BIO 104. Introduction To Natural Resource Conservation. 4 Credits.
This is an introductory course in natural resource conservation that will provide comprehensive overview of local, regional, and global resource and environmental issues. Topics will include population growth, soil conservation and agriculture, aquatic environments, air and water pollution, forest and wildlife management, global climate change, and energy usage. Strategic thinking towards sustainability will be a unifying theme in exploring the natural resources we depend upon in our complex, interconnected global environment. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

BIO 105. Current Topics in Biological Science. 3 Credits.
This course will give the student an exposure to, and understanding of, contemporary issues in biological science. Topics may change each semester. Representative topics to be explored might include antibiotics, antibiotic resistance, and vaccination, genetic engineering, climate change and its impact on food, water and disease, bioterrorism, overpopulation, and nutritional supplements. Topics will be explored through a variety of avenues, including discussion, readings, videos, and student research. Prerequisites: ENG 098, MAT 092 (or corequisite), RDG 098, or placement.

BIO 109. Biology I. 4 Credits.
Biology, as a science, represents a way of interacting with the world in a rational manner. The nature of science, cellular structure and function, the molecules of life, the acquisition and use of energy by living organisms, the code of heredity, principles of genetics, and genetic recombination will be considered in this course. Lab sessions will be hands on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 110. Biology II. 4 Credits.
Biology is the study of life. This course will consider the origin and evolution of life on Earth, natural selection, the diversity and the unity of life in all its many forms, the geological timelines as it applies to evolution, the modern sciences of taxonomy and phylogeny, including analysis of proteins, RNA and DNA for the purpose of building phylogenies of organisms, human evolution, and behavior as an adaptive mechanism. Lab sessions will be hands-on experiences revolving around the topics of the course. Two and one half lecture/discussion hours and two lab hours per week. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement; BIO 109 strongly suggested.

BIO 113. Life Science for Allied Health (formerly BIO 099). 3 Credits.
This course is designed to prepare students to succeed in Anatomy & Physiology I and II. Students build a foundation of biology concepts related to chemicals critical to life, cellular structure and function with emphasis on cellular transport, energy production and molecular genetics. Instruction will actively engage students in their learning and student success skills are integrated with the scientific body of knowledge as students prepare to enter various allied health programs. A GRADE OF ‘C+’ OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisites: ENG 098, MAT 092 (or corequisite), RDG 098 or placement.

BIO 116. Ecology. 4 Credits.
This course is the study of relationships between organisms and the environment. Ecology is a broad scientific discipline ranging from the study of individual organisms to the global scale. This is a course in modern experimental ecology that emphasizes the conceptual foundations of the discipline. Natural history provides our foundation, while evolution is the conceptual framework. The laboratory focuses on lab and field experiments that use the scientific method to demonstrate key concepts and develop an understanding of
include 6 hr. and will consist of approximately 2/3 field work mostly at Wachusett Mountain State Reservation and 1/3 examination.

The skills acquired in courses like this provide training on basic ecology, taxonomic identification, ecological survey methods, natural biological systems. Although not all students in introductory Field Biology courses will go on to become research scientists, there are incredible challenges encountered when attempting to experimentally test scientific theories under unpredictable and animal. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 122. Zoology: The Biology Of Animals. 4 Credits.
This course focuses on the unity and diversity within the animal kingdom. Animals are found in every environment and have various roles or niches that they occupy in these environments. Each environment presents different problems that these animals overcome with various structural, functional, and behavioral adaptations. The study of these adaptations is the central theme of this course. Laboratory is an integral part of this course with a focus on comparative anatomy through dissection of preserved specimens. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092, or placement.

BIO 128. Plants And Society. 3 Credits.
This course is a survey course looking at the origins, historical, and current use of plants in societies including food, spices, clothing, beverages, building material, and medicines. The search for and exploitation of many plant species by humans have directly and indirectly shaped the geopolitical world we now live in. These topics will follow a brief introduction to basic plant structure, function, and life cycle. The increasing role of plants in biotechnology will also be studied, as well as the important uses of algae and fungi as they relate to people, plants, and plant products. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

BIO 130. Plant Science. 4 Credits.
This course includes basic plant structure and function. This will include the anatomy and physiology of the plant cell, tissues, roots, stems, and leaf growth and development. Laboratory will include the study of the above with preserved and live specimens and with field study where possible. The effects of various plant pathogens on plant growth will be considered. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092, RDG 098, or placement. Fall.

BIO 140. Introduction To Greenhouse Management. 4 Credits.
Theory and practice of operation/management of a commercial greenhouse will be the major content of this course. This course will integrate the science of the greenhouse industry with the need to remain competitive. This four-credit lab science will use the MWCC greenhouse to study the science of the greenhouse including root substrate, fertilizer formulations, and the business of greenhouse management. Emphasis will be placed on chemical/non-chemical methods of control of plant pathogens. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

BIO 141. Fundamentals of Sustainable Agriculture. 4 Credits.
This course is designed for those students interested in understanding the processes by which plants grow and how that understanding can be used to improve the quality of plants grown in the garden, the landscape, and the home. Students will also examine the structure and function of flowering plants. A workshop approach will be used and experiments will be conducted in the lab and greenhouse. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or permission of Division Dean. Fall.

BIO 145. Introduction to Field Biology. 4 Credits.
A strong educational foundation in scientific principles should be rooted in some way to our own understanding of natural ecological systems. There are incredible challenges encountered when attempting to experimentally test scientific theories under unpredictable natural biological systems. Although not all students in introductory Field Biology courses will go on to become research scientists, the skills acquired in courses like this provide training on basic ecology, taxonomic identification, ecological survey methods, complex interactions, hypothesis testing, data analysis, and results interpretation. Lectures will be posted on Black Board three times per week and will be based on the text and supplemental material on related topics. The Laboratory portion of the course will include 6 hr. and will consist of approximately 2/3 field work mostly at Wachusett Mountain State Reservation and 1/3 examination.
BIO 152. Essentials of Anatomy and Physiology. 4 Credits.
Essentials of Anatomy and Physiology is an introduction to the basic anatomy and physiology of the human body with an emphasis on the interrelationships among the systems and their maintenance of homeostasis. The disruption of homeostasis in several disease models and in the aging process will also be considered. This course is designed for students pursuing a degree in selected programs such as practical nursing in Health Information Management. Class will focus on the physiology of the body systems while lab will primarily cover anatomy. In class and lab students will be expected to engage in independent and collaborative learning through analysis of case studies, problem solving, and hands-on laboratory exercises. A considerable amount of time outside of class is required to master course content through case study analysis, disease research, web based programs, and other assignments. Prerequisites: ENG 098, MAT 092, and RDG 098 or placement.

BIO 203. Anatomy and Physiology I (formerly BIO 199). 4 Credits.
This course applies the chemical and cellular basis of life to the human body systems focused on control & movement. An in-depth-study of the structure and function of the muscular, skeletal, nervous, endocrine and reproductive systems is provided. Instruction will actively engage students in their learning of theoretical concepts listed in the course syllabus; students also apply these concepts through hands-on laboratory experiences listed in the course syllabus. Students are strongly discouraged from taking BIO 203 concurrently with BIO 204. Prerequisites: Grade of C+ or better in BIO 113 (preferred) or BIO 109; ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 204. Anatomy and Physiology II. 4 Credits.
This course applies the chemical and cellular basis of life to the human body systems focused on processing & transporting chemicals. An in-depth-study of the structure and function of the digestive, cardiovascular, respiratory and renal systems is provided. Instruction will actively engage students in their learning of theoretical concepts listed in the course syllabus; students also apply these concepts through hands-on laboratory experiences listed in the course syllabus. Students are strongly discouraged from taking this course concurrently with BIO 203. Prerequisites: Grade of C+ or better in BIO 113 (preferred) or BIO 109; ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 205. Microbiology. 4 Credits.
This is a transferable four-credit laboratory science course. It is a required course for the Nursing curriculum at MWCC. It is recommended for students planning careers in health sciences or animal and plant sciences and will satisfy a lab science requirement here, or for transfer. In addition to a discussion of bacteria, fungi, protozoa, and other parasites, this course will discuss practical applications of the techniques of microbiology to the health care and industrial fields. This course is a medically-oriented course that surveys the broad aspects of this field of study. Topics include morphology and nutrition of microbes, pathogenic processes, host-defense mechanisms, allergy, antibiotic therapy, and a review of the common diseases of each system of the body. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement; BIO 113 (formerly BIO 099) or placement, BIO 109, BIO 203 (formerly BIO 199), or BIO 152 with grade of C or better.

BIO 209. Human Sexuality. 3 Credits.
This course is an in-depth study and discussion of all aspects of human sexuality. Emphasis will be on biological aspects and influences on human sexuality. Topics to be considered include structure, function, and dysfunction of the reproduction system, prenatal sexual development, achieving gender identity, sexual behavior, sexual signaling, health and control of sexual reproduction, correcting problems of sexual expression, divergent sexual behavior, and sexually transmitted diseases. Various media forms will be used. A primary objective of the course is a better understanding of one’s own sexuality. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement. Offered occasionally.

BIO 210. Genetics. 4 Credits.
This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, and biotechnological applications. Students will learn about recent advances in biotechnology that have genetic implications, including the Human Genome Project and advances in genetic engineering technology. Emphasis will be placed on techniques of DNA extraction, DNA amplification (PCR), and recombinant DNA techniques. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: BIO 109, MAT 162 (or corequisite). Spring.

Cell biology is the study of the structure and function of prokaryotic and eukaryotic cells. In this course we will examine many different areas of cellular biology including: the structure, function, and biosynthesis of cellular membranes and organelles; cell growth and oncogenic transformation; transport, receptors, and cell signaling; the cytoskeleton, the extracellular matrix, and cell movements; chromatin structure and RNA synthesis. Laboratories will focus both on exercises that help illustrate cellular phenomena,
as well as on the introduction of techniques and procedures commonly utilized in modern cell and molecular biology research. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: BIO 109 and MAT 162 (or corequisite). Spring.

**BIO 240. Survey of Diseases. 3 Credits.**

This course will give the student an understanding of the various common diseases that are found in the different body systems. Emphasis will be on signs and symptoms, diagnosing methods, and treatment of the diseases. Course is geared for Allied Health majors. Prerequisite: BIO 152. Spring.

**BUSINESS ADMINISTRATION AND ACCOUNTING**

The Business Administration Department at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Business Administration, a Certificate in Nonprofit Management, an Administrative Assistant Certificate, a Certificate in Accounting/Bookkeeping, an Associate Degree in Business Administration - Accounting Concentration, an Associate Degree in Business Administration -- Transfer or an Associate Degree in Business Administration -- Career. Upon completion of any program in Business Administration, students are prepared for positions in many types of business settings. During the course of study, students will develop skills and competencies in the basic economic principles of the business world using the latest computer technology.

Students will gain the knowledge in management, general business, small business, accounting and marketing. Accounting students who earn a Certificate in Accounting/Bookkeeping or Associate Degree in Business Administration with an Accounting Concentration, are prepared for entry-level positions in accounts payable, accounts receivable, purchasing and general accounting.

**ACCOUNTING CONCENTRATION (BACA)**

**A Degree in Business Administration – Career**

Students enrolled will gain an understanding of the basic principles of accounting for the preparation of internal reports related to the management and decision-making processes of a firm. This business degree is job focused, providing learners with the practical skills and knowledge most desired in the workplace. Through courses in management, general business, liberal arts, science, accounting, and marketing, students will gain the knowledge and skills necessary to be competitive in the workplace.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 101</td>
<td>Principles Of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 121 or 128</td>
<td>Spreadsheet Applications (or Introduction to Information Systems)</td>
<td>3</td>
</tr>
<tr>
<td>MKT 142</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 162</td>
<td>Introduction to Functions Modeling (Formerly MAT 134) (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>ACC 102</td>
<td>Principles Of Accounting II</td>
</tr>
<tr>
<td>ACC 227</td>
<td>Computerized Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201</td>
<td>International Business</td>
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<table>
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<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 226</td>
<td>Managerial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ACC 224</td>
<td>Taxation</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Principles Of Management</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>MGT 250</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>BUS 211</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>FIN 250</td>
<td>Basic Finance</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
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<td>3</td>
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<tr>
<td>Science Elective</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits:</td>
<td></td>
<td>61</td>
</tr>
</tbody>
</table>
Social Science Electives: See Elective Courses by Abbreviation (p. 357). ECO 102 Strongly Recommended.

Science Electives: See Elective Courses by Abbreviation (p. 357).

See the accounting program student learning outcomes and technical standards tab.
Student Success Tips

Students are encouraged to join and become active members of the Business Honor Society, Alpha Beta Gamma. Students should expect to spend significant time outside of class completing assignments individually or with fellow students in study groups. Be sure to take advantage of the tutoring and library support services available in the Academic Support Center / Library Room 128 in Gardner, Room 123 in Leominster or online.

https://mwcc.edu/academics/library-academic-support-center/

Transfer options

This program is intended for immediate career entry.

Special requirements

Prior to enrolling in each course, students should ensure they meet course requirements. Many business electives are offered to meet students' career goals. Technical standards must be met with or without accommodations.

Career options/Earning potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=accounting&amp;SearchType=occupation)

BUSINESS ADMINISTRATION — TRANSFER DEGREE (BA)

Start your business degree education and training at Mount Wachusett Community College. The business transfer degree qualifies a student for direct transfer to Massachusetts State Universities under the MassTransfer Agreement. This is an ideal degree for students with a desire to work hard and contribute to society in a business framework. Through courses in management, general business, liberal arts, science, accounting, and marketing, students will gain the knowledge and skills necessary to get that next promotion or prepare for transfer to a bachelor degree program. The Business Administration Transfer program includes the MassTransfer Block.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
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<tr>
<td>ACC 101</td>
<td>Principles Of Accounting I</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>CIS 121 or 128</td>
<td>Spreadsheet Applications (or Introduction to Information Systems)</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Principles Of Management</td>
</tr>
<tr>
<td>MAT 162</td>
<td>Introduction to Functions Modeling (Formerly MAT 134) (Or Higher)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ACC 102</td>
<td>Principles Of Accounting II</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>Behavioral Social Science Elective</td>
<td>3</td>
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<tr>
<td>Restricted Business Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
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</table>

**Year 2**

| Fall | | |
| BUS 211 | Business Law I | 3 |
| ECO 101 | Macroeconomics | 3 |
| ACC 226 | Managerial Accounting I | 3 |
| MKT 142 | Marketing | 3 |
| Lab Science Elective | 3 |
| **Spring** | | |
| Science Elective | 3 |
| SPC 113 | Speech (formerly THE113) | 3 |
| ECO 102 | Microeconomics | 3 |
| Humanities Elective | 3 |
| MGT 250 | Strategic Management | 3 |

Total Credits: 62
1. Behavioral Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
3. Lab Science Electives/Science Electives: See Elective Courses by Abbreviation (p. 357).

**Restricted Business Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUS 105</td>
<td>Business Ethics</td>
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</tr>
<tr>
<td>BUS 201</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 212</td>
<td>Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics</td>
<td>3</td>
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</tbody>
</table>

See Business Administration program student learning outcomes and technical standards.

**Student Success Tips**

Students are encouraged to join and become active members of the Business Honor Society, Alpha Beta Gamma. Students should expect to spend significant time outside of class completing assignments individually or with fellow students in study groups. Be sure to take advantage of the tutoring and library support services available in the Academic Support Center/Library Room 128 in Gardner, Room 123 in Leominster or online.

https://mwcc.edu/academics/library-academic-support-center/

**Special Requirements**

Technical standards must be met with or without accommodations.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**MASSTransfer**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)
BUSINESS ADMINISTRATION — CAREER DEGREE (BAC)

A business degree prepares students for a large variety of jobs. This is an ideal degree for students with a desire to work hard and contribute to society in a business framework. Through courses in management, general business, accounting, and marketing, students will gain the knowledge and skills necessary to be competitive in the marketplace.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 101</td>
<td>Principles Of Accounting I</td>
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<tr>
<td>ENG 101</td>
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<tr>
<td>CIS 121 or 128</td>
<td>Spreadsheet Applications (or Introduction to Information Systems)</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Principles Of Management</td>
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<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
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<tr>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 102</td>
<td>Principles Of Accounting II</td>
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<td>ACC 227</td>
<td>Computerized Accounting</td>
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<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>MKT 142</td>
<td>Marketing</td>
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<tr>
<td>Restricted Business Elective I</td>
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Year 2

<table>
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<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>BUS 211</td>
<td>Business Law I</td>
</tr>
<tr>
<td>Humanities Elective 2</td>
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<tr>
<td>Restricted Business Elective II 1</td>
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<tr>
<td>MGT 110</td>
<td>Introduction to Business</td>
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<tr>
<td>ECO 101</td>
<td>Macroeconomics</td>
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<th>Spring</th>
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<tbody>
<tr>
<td>MGT 250</td>
<td>Strategic Management</td>
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<tr>
<td>Social Science Elective I 3</td>
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<tr>
<td>Social Science Elective II 3</td>
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<tr>
<td>Lab Science Elective 4</td>
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</tbody>
</table>

Total Credits: 61

1. Restricted Business Electives: ACC, BUS, CED, FIN, MGT or MKT
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
3. Social Science Electives: See Elective Courses by Abbreviation (p. 357); ECO 102 strongly recommended.
4. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).

Student Success Tips

Students are encouraged to join and become active members of the Business Honor Society, Alpha Beta Gamma. Students should expect to spend significant time outside of class completing assignments individually or with fellow students in study groups. Be sure to take advantage of the tutoring and library support services available in the Academic Support Center / Library Room 128 in Gardner, Room 123 in Leominster or online.

https://mwcc.edu/academics/library-academic-support-center/

Transfer Options

Click here for transfer options (p. 62) and consult with an advisor.

Special Requirements

Prior to enrolling in each course, students should ensure they meet course requirements. Many business electives are offered to meet students’ career goals. Technical standards must be met with or without accommodations.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=business+administration&SearchType=occupation)
Accounting/Bookkeeping Certificate (CAA)

This program prepares students for entry-level careers in accounting, including accounts receivable, accounts payable, payroll and data entry. This program is a great option for students seeking a career change or job retraining.

### Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 101</td>
<td>3</td>
</tr>
<tr>
<td>Principles Of Accounting I</td>
<td></td>
</tr>
<tr>
<td>Career Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>CIS 121</td>
<td>3</td>
</tr>
<tr>
<td>Spreadsheet Applications</td>
<td></td>
</tr>
<tr>
<td>MAT 126</td>
<td>3</td>
</tr>
<tr>
<td>Topics In Mathematics (or higher)</td>
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<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>ACC 102</td>
<td>3</td>
</tr>
<tr>
<td>Principles Of Accounting II</td>
<td></td>
</tr>
<tr>
<td>ACC 227</td>
<td>3</td>
</tr>
<tr>
<td>Computerized Accounting</td>
<td></td>
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<tr>
<td>Career Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>ACC 224</td>
<td>3</td>
</tr>
<tr>
<td>Taxation</td>
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Total Credits: 24

### Career Electives

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS 105</td>
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<tr>
<td>BUS 112</td>
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<td>BUS 125</td>
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<tr>
<td>MGT 210</td>
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<tr>
<td>MKT 142</td>
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<tr>
<td>MKT 241</td>
</tr>
</tbody>
</table>

See Business Administration program student learning outcomes and technical standards.
Student Success Tips
Students are encouraged to join and become active members of the Business Honor Society, Alpha Beta Gamma. Students should expect to spend significant time outside of class completing assignments individually or with fellow students in study groups. Be sure to take advantage of the tutoring and library support services available in the Academic Support Center / Library Room 128 in Gardner, Room 123 in Leominster or online.

https://mwcc.edu/academics/library-academic-support-center/

Special Requirements
Students entering this program must meet the same technical standards as required for the Business Administration degrees. Technical standards must be met with or without accommodations.

Transfer Options
This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Business Administration Degree.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=accounting&SearchType=occupation)

ADMINISTRATIVE ASSISTANT CERTIFICATE (AAC)
The Administrative Assistant Certificate Program at Mount Wachusett Community College provides students with the preparation needed for entry-level positions in a variety of office settings. Upon completion of the program, students will have the skills and competencies to begin a career in an administrative assistant position in a variety of sectors.

Year 1

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EOA 110 Administrative Assistant Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 121 Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EOA 106 Keyboarding (or Placement Test)</td>
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<th>Spring</th>
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<tbody>
<tr>
<td></td>
<td>EOA 107 Word Processing Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACC 101 or CIS 123 Principles Of Accounting I (or Microcomputer Database Management)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 125 Communication For Business And Industry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EOA 180 Externship Experience for the Administrative Assistant</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 24

1 Students enrolled in the Administrative Assistant Certificate must earn a grade of B- in EOA 110 and EOA 180.
2 Students who place out of EOA 106 will be required to enroll in one of three restrictive electives: LAW 101, MAS 102 or SPA 109

See the Administrative Assistant Certificate technical standards.

Student Success Tips
Students are encouraged to join and become active members of the Business Honor Society, Alpha Beta Gamma. Students should expect to spend significant time outside of class completing assignments individually or with fellow students in study groups. Be sure to take advantage of the tutoring and library support services available in the Academic Support Center / Library Room 128 in Gardner, Room 123 in Leominster or online.

https://mwcc.edu/academics/library-academic-support-center/

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements
Technical standards must be met with or without accommodations.
Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Office+Assistant&SearchType=occupation&EdLevel=all)
BUSINESS ADMINISTRATION CERTIFICATE (BUC)

This program offers a broad array of courses, exposing students to the skills and knowledge needed for a business career. It is a great option for those who have a limited amount of time to attain an education, would like a background in business, or would like to explore business before pursuing a degree.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 101 Principles Of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 121 Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>MKT 142 Marketing</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 102 Principles Of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210 Principles Of Management</td>
<td>3</td>
</tr>
<tr>
<td>MAT 126 Topics In Mathematics (or higher)</td>
<td>3</td>
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<tr>
<td>MGT 110 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ACC 227 Computerized Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 27

See Business Administration program student learning outcomes and technical standards.

Student Success Tips

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Special Requirements

Technical standards must be met with or without accommodations.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Business Administration Degree.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=business+administration&amp;SearchType=occupation)
NONPROFIT MANAGEMENT CERTIFICATE (BNPC)

Professionals in nonprofit organizations often are responsible for a variety of roles from chief executive to fundraiser and grant writer. As a result, a professional requires a high degree of dexterity to successfully navigate today’s nonprofit environment. Demonstrate your ability to solve problems, contribute ideas, and offer solutions by earning a certificate in nonprofit management.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>ACC 101</td>
<td>Principles Of Accounting I</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>CIS 121 or 128</td>
<td>Spreadsheet Applications (or Introduction to Information Systems)</td>
</tr>
<tr>
<td>HST 101</td>
<td>Introduction To Human Services</td>
</tr>
<tr>
<td>Career Elective (see list below)</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS 220</td>
<td>The Business Of Social Change</td>
</tr>
<tr>
<td>ENG 251</td>
<td>Introduction To Public Relations</td>
</tr>
<tr>
<td>BUS 224</td>
<td>Introduction To Grant Writing</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Introduction to Business</td>
</tr>
</tbody>
</table>

Total Credits: 27

Career Electives

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See Business Administration program student learning outcomes and technical standards.

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Special Requirements

Technical standards must be met with or without accommodations.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Business Administration Degree.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Nonprofit+management&SearchType=occupation)
Program Student Learning Outcomes for Business Administration and Accounting: BA, BAC, AAC, BNPC, BUC, BACA, and CAA

Upon graduation from these programs students shall have the ability to:

- Identify basic principles used in the business world today.
- Demonstrate an understanding of basic economic principles including skills necessary to read, create, and understand graphical information.
- Demonstrate understanding of the “marketing concept” and its application by profit-seeking firms of this decade.
- Demonstrate an understanding of how monetary and fiscal policies are used to stabilize or stimulate the US economy.
- Use the latest computer and electronic technology in both personal lives and professional careers.
- Analyze economic events necessary for recording accounting transactions that result in accurately-prepared financial statements.
- Apply basic management principles skills in order to obtain employment in fields related to training such that job performance will satisfactorily provide employers in the area with skills needed to meet current labor market trends.

TECHNICAL STANDARDS

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Learn to operate a computer and work at a computer for a minimum of two hours.
- Possess manual dexterity to operate computer devices such as a keyboard and mouse.
- Read data from a computer screen.
- Sit or stand for prolonged periods of time.

ACC 101. Principles Of Accounting I. 3 Credits.
This course covers the basic accounting principles necessary for an intelligent understanding of the books and records used in business: debits and credits; opening and closing books; classification and analysis of accounts; controlling accounts; trial balance; working papers; and the preparation of financial statements. Prerequisites: FYE 101, MAT 092, RDG 098, ENG 098 or placement.

ACC 102. Principles Of Accounting II. 3 Credits.
This course is a continuation of ACC 101 Principles of Accounting I and covers partnerships, the nature and formation of corporations, capital stock, corporation earnings, dividends, investments, and long-term obligations. Topics also considered are manufacturing operations related to control accounting procedures and statement of changes in financial position. Prerequisite: ACC 101.

ACC 224. Taxation. 3 Credits.
This course includes income tax laws and their application to individuals, partnerships, fiduciaries, and corporations. Practical problems covering concrete situations illustrate the meaning of the laws. Primary emphasis is placed on individual tax preparation. Prerequisite: ACC 101.

ACC 226. Managerial Accounting I. 3 Credits.
This course is a continuation of ACC 101 Principles of Accounting I and ACC 102 Principles of Accounting II with major emphasis on the development and application of accounting data for planning and control. Prerequisite: ACC 102 or permission of the division dean. Fall.

ACC 227. Computerized Accounting. 3 Credits.
The accounting cycle for a business, payroll, and bank statement reconciliation is entirely computerized into one coordinated, interactive system. Other problems may be introduced as appropriate. Prerequisites: ACC 101; CIS 121 or CIS 127.

BUS 105. Business Ethics. 3 Credits.
This course is designed for the student with an interest in organizational and business ethics. The focus is on how we act as individuals and how we contribute to group accountability. The class will provide each student with a framework for thinking in an ethical manner. In addition, the class will explore every-day ethical thinking. Most topics will be explored using the case study method.
Although designed for the business student, this class is open to all students with an interest in exploring everyday ethical behavior on an individual and group level. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**BUS 112. Introduction To Customer Relations. 3 Credits.**
This course focuses on practical information that will enable both the student and practicing customer service professional to enhance, hone, and refine their service skills. The course is designed to equip individuals with the strategic necessities to effectively interact with and deal with a multitude of customer-related service issues that are an integral part of the customer service job function. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**BUS 215. Communication For Business And Industry. 3 Credits.**
Students are introduced to concepts relating to communicating in a diverse workplace. Emphasis is placed on nonverbal communication, the writing process, and email. Students learn how to write memos and letters and communicate with customers, research and use information, develop and use graphic and visual aids. Students prepare reports and presentations; develop skills to communicate through the application and interview process. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**BUS 201. International Business. 3 Credits.**
Students will most likely work for a company that is either foreign owned, domestically owned but has some foreign operations, or domestically owned but is affected by the global economy. Thus, this class will prepare students to be successful and productive in their careers based upon an understanding of the basics of why companies conduct business across borders. Since even small businesses are becoming more active in the international business environment through activities such as buying and supplying components, students who are planning to start their own businesses should also be cognizant of international business. This class will also stress the importance of cultural literacy and will help students develop the type of cultural literacy that will enable them to be conversant within the global economy and international marketplaces. Offered online only. Prerequisite: ENG 101.

**BUS 211. Business Law I. 3 Credits.**
This course introduces and examines business transactions and issues with a major emphasis on contract law and the Uniform Commercial Code and historical foundation of the Common Law. Topics that will be examined in this course include; Constitutional Law, Intellectual Property, Tort Law, Consumer Protection, Alternative Dispute Resolution, Employment and Labor Law, Discrimination, immigration and the varied forms of business entities including, but not limited to, Sole Proprietorships, Corporations, LLC’s LLP’s and Partnerships. The focus of this course will be to provide a comprehensive examination of the laws regulating commercial activity and to help students acquire the knowledge and skills to conduct business legally and ethically in a dynamic world marketplace. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**BUS 212. Business Law II. 3 Credits.**
This course is a continuation of BUS 211 Business Law I and introduces the student to the Uniform Commercial Code (UCC), a uniform set of legal principles that facilitates intrastate and interstate commercial transactions. Topics include the law of sales, leases, secured transactions, and other commercial legal topics. Particular emphasis is placed on the UCC modification of common-law contract law, with particular reference to the sale of goods and special rules governing transactions by merchants. Prerequisite: BUS 211.

**BUS 220. The Business Of Social Change. 3 Credits.**
This course will explore the theory of social entrepreneurship and how social entrepreneurs create systemic social change. Through case studies and readings, students will analyze how social entrepreneurs use their management skills in business planning, marketing, and leadership to work with the for-profit, nonprofit, and public sectors to achieve their goals. The course will also explore how successful social entrepreneurs use creative thinking, strong leadership, and business skills to create purposeful organizations that grow and thrive. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

**BUS 224. Introduction To Grant Writing. 3 Credits.**
This course provides beginner or intermediate-level grant writers with the skills and knowledge needed to obtain public and private grants. Working with sample proposals, students will learn to create a successful grant. This will include finding funding organizations, responding to a request for proposal, planning a program, creating a budget, learning the essential elements of a grant proposal, and understanding how to partner with agencies. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**EOA 106. Keyboarding. 3 Credits.**
Students are taught correct keyboarding techniques while developing speed and accuracy using a keyboarding software program. These techniques are then used to prepare business and personal correspondence with the use of Microsoft Word. This course is designed for students who have few or no computer skills, for students who want to learn how to type, or for students who are looking to improve their typing skills. Prerequisites: FYE 101, RDG 098, or placement.

**EOA 107. Word Processing Applications. 3 Credits.**
The major topics covered in this class are creating, editing, and formatting of a document and working with multiple documents. A professional paper, a newsletter, a basic form, and tables are designed. A mail merge is developed. Password protection of a document is introduced. The course material helps prepare the student to take a component of the Microsoft Office Specialist Certification. This
course is helpful to the student who has minimal or no experience using a computer. Prerequisites: FYE 101, RDG 098, ENG 098 or placement.

EOA 110. Administrative Assistant Office Procedures. 3 Credits.
The course teaches the students concepts and procedures to develop the skills they will need as an administrative assistant. Students learn general office procedures, communicating techniques, interpersonal skills, use of technology, records management, and scheduling of appointments. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

EOA 180. Externship Experience for the Administrative Assistant. 3 Credits.
This externship experience will allow students to apply admin skills, perform administrative procedures and develop professional attitudes for interacting with professionals in an administrative roll. One hundred and twenty externship hours is required. Prerequisite: Recommendation of the faculty advisor and the Director of Community Learning; QPA of 2.5 or better and a minimum of 12 college level earned credits. Spring.

HRM 102. Introduction to Hospitality Management. 3 Credits.
This introductory course is a survey of contemporary hospitality and managerial practices and procedures that are pertinent to the hospitality industry. It examines the overall operation of hospitality including hospitality and tourism leadership, communication, front office leadership, customer service, housekeeping operations, facilities management, human resources, food and beverage service, and managing banquets and catered events. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

HRM 103. Hospitality Marketing. 3 Credits.
This course introduces the basic factors involved in implementing the “marketing concept” with an emphasis on the hospitality and tourism industry including the four elements of the marketing mix: product planning, promotion, pricing, and distribution. Also covered are the societal, legal, economic and competitive environments within which sales and marketing functions within the hospitality industry. Prerequisites: MAT 092, RDG 098, ENG 098, FYE 101 or placement.

HRM 199. Internship for Hospitality Management. 3 Credits.
In this course, students will apply knowledge, perform administrative procedures, and develop professional attitudes for interacting with other professionals and hospitality consumers in the actual hospitality industry. This will involve 120 hours unpaid experience at an MWCC-approved hospitality site. Prerequisites: ACC 101, CIS 127, BUS 125, HRM 102, and approval of the instructor.

MGT 110. Introduction to Business. 3 Credits.
Business entrepreneurs fail most frequently because of the inability to plan and to master business operations after recognizing a business opportunity. This course will deal with business planning and operations as they relate to the entrepreneur. Organizational operations are discussed with attention to business and management functions. Prerequisites: ENG 098, RDG 098, FYE 101, MAT 092 or placement.

MGT 210. Principles Of Management. 3 Credits.
This course is a survey of traditional and contemporary principles of management and of the application of behavioral science and quantitative concepts to the solution of actual business organization problems. It is an introductory course dealing with the structure of business, its environment, and its relationship to society, and the individual members of the class. It examines the operation of business, how a firm's structure and management are determined, the methods by which companies produce products and services, the way they manage human and physical resources, market their goods and services, finance operations, and the techniques they use to control operations and meet their responsibilities. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MGT 235. Human Resources Management. 3 Credits.
This course focuses on the development and retention of an efficient work force, including such topics as the construction and use of occupational descriptions, sources of labor, application forms, interviewing, testing, training, job analysis, and wage plans and policies. Course offered during the fall semester only. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MGT 250. Strategic Management. 3 Credits.
This course prepares students to integrate important current issues in strategic management with key learning from MWCC business curriculum courses. It concentrates on in-class presentations and work team approaches to learning with a focus on critical thinking. It is designed with an applied perspective and highlights significant emerging trends in strategic management. It is intended to provide students with the business skills and knowledge transfer that prepares them for further baccalaureate learning and on-the-job implementation of corporate, business, and functional strategies. Registration is restricted to business degree graduating sophomores only. Prerequisites: ACC 101, ACC 102; CIS 128 or CIS 121; ENG 102, and 45 credits earned toward a BA, BAC or BACA degree.

MKT 142. Marketing. 3 Credits.
This course introduces the basic factors involved in implementing the "marketing concept" with emphasis on the four elements of the marketing mix: product planning, promotion, pricing, and distribution. Also covered are the societal, legal, economic, and competitive environments within which the modern marketing organization functions. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.
MKT 143. Retail Management. 3 Credits.
This course includes topics such as competition, motivation, risk, buying, pricing, store location, and planning and controlling inventories. The management approach to the study of retailing is emphasized. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MKT 241. Advertising. 3 Credits.
This course focuses on the role of advertising as a communications component in the marketing process. Topics include advertising agency operations, product and media research, media selection and buying, integrated marketing communications, and the creative process. Students will examine case studies and develop ad campaigns. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

CHEMISTRY
At Mount Wachusett Community College (MWCC) students have the opportunity to earn an Associate degree in Chemistry. Upon the successful completion of the program students will be well prepared for the rigors of a four-year institution to finish a baccalaureate degree in chemistry or related disciplines such as biological science or chemical engineering. The chemistry degree at MWCC offers students the opportunity to explore and participate in hands-on laboratory experience not only in chemistry but also in physics and biology.

CHEMISTRY (CHEM)
The chemistry degree is designed to prepare students to transfer in chemistry to a four-year university after they complete their Associate degree at MWCC. The chemistry curriculum is based on STEM CORE requirements and Mass Transfer benefits so that students will continue as juniors at their four-year institution when transferring from MWCC.

In addition to having the opportunity to continue on to a Bachelor's in chemistry at a 4-year institution, students have the option to go on to biological sciences, chemical engineering, pharmacy or physician assistant, as the flexibility of the chemical sciences degree affords the option of transfer to those areas.

Alternatively, students can market their essential lab skills through hands-on experiments using: UV spec, pH, IR and HPLC, which contribute to creating competent lab technicians in fields related to both chemistry and biology. These hands-on experiences are designed to enhance lab job skills and guide students as they continue their educational degree.

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHE 107</td>
<td>General Chemistry I</td>
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</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
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<tr>
<td>MAT 163</td>
<td>Pre-Calculus</td>
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<tr>
<td>Social Science Elective ¹</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>CHE 108</td>
<td>General Chemistry II</td>
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<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
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<tr>
<td>MAT 211</td>
<td>Calculus I</td>
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<tr>
<td>BIO 109</td>
<td>Biology I</td>
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<tr>
<td>Social Science Elective ¹</td>
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<tr>
<td><strong>Year 2</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>CHE 207</td>
<td>Organic Chemistry I</td>
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</tr>
<tr>
<td>MAT 212</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>PHY 120</td>
<td>Physics for Engineering and Science I (or PHY 105)</td>
<td>4</td>
</tr>
<tr>
<td>Humanities Elective ²</td>
<td>3</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>Professional Elective (see list below)</td>
<td>4</td>
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</tr>
</tbody>
</table>

Total Credits: 62
1 Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2 Humanities Electives: See Elective Courses by Abbreviation (p. 357).

### Professional Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 110</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 215</td>
<td>Cell Biology (formerly BIO 170)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 205</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 210</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>MAT 213</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

See Chemistry program student learning outcomes and technical standards.

### Campus

This program is offered on the Gardner campus only.

### Transfer Options

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

### MASSTransfer

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

### PROGRAM COMPETENCIES FOR CHEM

Upon completion of this program, students should be able to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines — math, science, the technology— and gather, assess, and interpret information to reach well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial scientific research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
- Demonstrate knowledge of and understanding their own society and other societies, with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
- Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
- Demonstrate the ability to collect, record and organize scientific data correctly.
- Demonstrate the ability to work safely in a laboratory environment.
- Demonstrate the ability to manipulate and use scientific tools, such as the microscope, pH meter, measurement tools, glassware and other scientific instrumentation. This would include independently conducting an experiment using written directions such as lab manuals or Standard Operating Procedures as a guide.
- Demonstrate the ability to use mathematical tools as applied to science. This could include building and interpreting graphs, using equations and formulas to solve problems, and fitting data to a mathematical model.
- Demonstrate the ability to search scientific literature and use the information.
- Successfully transfer to a baccalaureate degree-granting institution if desired, with the proper educational foundation for transition into a chosen field of study.
TECHNICAL STANDARDS FOR CHEM

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Differentiate by touch: hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
- Respond promptly to spoken words, as well as monitor signals and instrument alarms.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Manipulate small parts, and make fine hand adjustments to machines and test equipment.
- Operate a computer.

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

CHE 107. General Chemistry I. 4 Credits.
This course provides the student with an understanding of the fundamental principles of matter and energy. The course includes atomic and molecular structure, the periodic table, patterns of chemical reactivity, solution chemistry, stoichiometry, thermochemistry, and chemical bonding. A mathematical approach to chemical problems is used to develop problem solving skills as well as a conceptual understanding. Laboratory work is correlated with class discussion. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 162 (or corequisite), RDG 098 or placement; Recommended: High school chemistry or other previous chemistry classes.

CHE 108. General Chemistry II. 4 Credits.
A continuation of CHE 107 General Chemistry I, this course covers such topics as intermolecular forces, behavior of gases, liquids and solutions, chemical kinetics, equilibrium, oxidation-reduction and electro-chemistry. A mathematical approach to chemical problems is used to develop problem solving skills as well as a conceptual understanding. Laboratory work is correlated with class discussion. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. A grade of C or better in this course is required for advancement to CHE 207. Prerequisite: CHE 107; MAT 162.

CHE 120. Environmental Chemistry. 4 Credits.
This course is an introduction to the principles of chemistry with an emphasis on the environmental chemistry of air, energy, water and soil. It is recommended as a general science elective or as a foundation for continued study in the sciences, particularly natural resources. The following basic chemical topics will be introduced: matter classification, atomic structure, periodic table, chemical bonds, chemical formulas and names, spectroscopy, solutions, concentration, pH, moles and the use of energy. The course emphasizes an understanding of current environmental problems, such as air and water pollution, the ozone layer and energy issues. The relationships between science, technology and society are also discussed in the context of environmental issues. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement. Fall.

CHE 180. Instrumental Analysis. 4 Credits.
This course provides an introduction to the use of instruments a Laboratory Quality Technician will encounter. The fundamentals of using instrumentation to measure chemical properties and concentrations will be covered; this will include sample preparation, calibration, and data analysis. The lab portion will provide hands-on experience with a variety of different analytical chemistry techniques and instruments (e.g. UV-VIS spectrophotometry, Infra-red spectrophotometry (FTIR), liquid chromatography, etc.). Some physical testing may also be included. Prerequisite: MAT 162 (or corequisite) or placement; CHE 107, CHE 120. Spring.

CHE 207. Organic Chemistry I. 4 Credits.
Organic chemistry is the study of carbon and its compounds. In the first semester, the structures and properties of the basic hydrocarbons and their simple substitution products will be studied. This will allow us to explore the following fundamental topics in organic chemistry: isomers, nomenclature, basic reaction mechanisms, spectroscopy (IR, NMR and MS). The functional groups will be introduced. Laboratory work will develop basic skills and techniques and be correlated with class discussion. Lab sessions will be
hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: CHE 108 with a grade of C or higher; MAT 163 (or corequisite). Fall.

**CHE 208. Organic Chemistry II. 4 Credits.**
Organic chemistry is the study of carbon and its compounds. In the second semester, the structures and properties of the substituted hydrocarbons (functional groups) will be studied. This will include their synthesis and their reactions. The use of spectroscopy (IR, NMR and MS) will be further developed. Multistep synthesis of complex organic compounds will be introduced. Laboratory work will develop more advanced skills and techniques, and be correlated with class discussion. Lab sessions will be hands on experiences revolving around and applying the topics listed in the lab section of the syllabus. A formal research lab report that incorporates previous scientific learning will be required in this course as a capstone experience. Prerequisites: CHE 207; MAT 163 or higher (prerequisite or corequisite). Spring.

**CIVIC ENGAGEMENT AND COMMUNITY LEADERSHIP**
The Civic Engagement and Community Leadership Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The Civic Engagement and Community Leadership Track offers a student the opportunity to explore their social responsibility while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

**CIVIC ENGAGEMENT AND COMMUNITY LEADERSHIP TRACK (LACE)**
**A DEGREE IN LIBERAL ARTS AND SCIENCES**
Both civic knowledge and civic engagement are necessary to democracy. The Civic Engagement and Community Leadership track embodies this relationship; the material learned within a broad liberal arts and sciences curriculum is applied to current social, political, and economic issues. Students acquire the skills, wisdom, and knowledge needed to make a difference in the civic life of their communities and the world. In addition, this program meets the requirements for the MassTransfer block agreement, which makes it a good fit for students planning to transfer to a four-year college. The subject matter of this concentration is relevant to most four-year degree programs, including economics, regional planning, business, philosophy, environmental science, history, political science, or government.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>PHL 250</td>
<td>Ethics</td>
</tr>
<tr>
<td>SSC 120</td>
<td>Perspectives On Leadership</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics</td>
</tr>
<tr>
<td>General Elective I ¹</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ECO 101</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>HIS 121</td>
<td>History Of The Constitution</td>
</tr>
<tr>
<td>Lab Science Elective ³</td>
<td></td>
</tr>
<tr>
<td>Behavioral Social Science Elective ⁴</td>
<td></td>
</tr>
<tr>
<td>Literature Elective I ⁵</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 220</td>
<td>The Business Of Social Change</td>
</tr>
<tr>
<td>PHL 110</td>
<td>Logic</td>
</tr>
<tr>
<td>ENG 290</td>
<td>Advanced Writing and Research</td>
</tr>
<tr>
<td>Literature Elective II ⁶</td>
<td></td>
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<tr>
<td>General Elective II ¹</td>
<td></td>
</tr>
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</table>

**Total Credits:** 61-62
1. General Electives: See General Electives (p. 357) Exceptions
2. Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
5. Literature Electives: See Elective Courses by Abbreviation (p. 357).

See Civic Engagement and Community Leadership program student learning outcomes and technical standards

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

MASSTransfer
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Special Requirements
Technical standards must be met with or without accommodations.

PROGRAM STUDENT LEARNING OUTCOMES FOR LACE
Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
- Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
- Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
- Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.
- Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

CAPSTONE COURSE FOR LACE
ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

TECHNICAL STANDARDS ¹ FOR LACE
¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Work as a member of a team.
COMPUTER INFORMATION SYSTEMS

The Computer Information Systems Program at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Cyber Security, a Certificate in Information Technology (IT) Support Specialist, a Software Support Certificate, an Associate Degree in Computer Information Systems -- Transfer or an Associate Degree in Computer Information Systems -- Career. Upon completion of a certificate or degree program, students are prepared for positions in various information technology settings. During the course of study, students will develop skills and competencies in programming as well as analyzing, assessing, diagnosing, and troubleshooting hardware, software, network, and other desktop issues. Students will gain knowledge in maintaining hardware systems, software systems, and user accounts.

COMPUTER INFORMATION SYSTEMS TRANSFER TRACK (CIT)

Start your computer information systems degree and training at Mount Wachusett Community College. The computer information systems transfer degree qualifies a student for direct transfer to Massachusetts State Universities under the MassTransfer agreement. Students will be introduced to business software systems and object oriented programming.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>CIS 128 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science Elective 1</td>
<td></td>
</tr>
<tr>
<td>MAT 162 Introduction to Functions Modeling (Formerly MAT 134)</td>
<td>4</td>
</tr>
<tr>
<td>CIS 150 Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective 2</td>
<td>3-4</td>
</tr>
<tr>
<td>ECO 101 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 180 Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 152 Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ECO 102 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACC 101 Principles Of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective 3</td>
<td></td>
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<tr>
<td>MAT 143 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CIS 250 Systems Programming</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ACC 102 Principles Of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113 Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective 4</td>
<td>3</td>
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<tr>
<td>History Elective 5</td>
<td>3</td>
</tr>
<tr>
<td>CIS 224 Beginning Pl/Sql</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td><strong>62-63</strong></td>
</tr>
</tbody>
</table>

1. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Humanities Electives: ART, ASL, DAN, ENG, FRE, HUM, MUS, PHL, SPA, THE. MWCC graduates who wish to transfer to Fitchburg State University are strongly advised to complete HUM 260 The Art Of Being Human I.
4. Literature Electives: See Elective Courses by Abbreviation (p. 357).
5. Any HIS course.

See Computer Information Systems program student learning outcomes and technical standards.

**Student Success Tips**

To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.
Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements
Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The college's adaptive computer lab, which provides assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.
COMPUTER INFORMATION SYSTEMS DEGREE (CIS)

This degree will prepare students for the information technology (IT) field especially related to IT support specialist and help desk entry positions. Students will utilize software applications, networks, and web servers; query database applications to locate, evaluate, and use data; create web pages and web graphics; create written documentation and oral presentations; configure, monitor, secure, and administer network resources; as well as demonstrate technical skills and ability in analyzing, assessing, diagnosing, and troubleshooting hardware, software, network, and other desktop issues. Additionally, students will gain knowledge related to a broad overview of information security.

### Year 1

<table>
<thead>
<tr>
<th>Term</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td>CIS 150</td>
<td>Computer Science I</td>
</tr>
<tr>
<td></td>
<td>Social Science Elective</td>
<td>1</td>
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<tr>
<td></td>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 128</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 140</td>
<td>Microcomputer Networking Applications</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td></td>
<td>CIS 123</td>
<td>Microcomputer Database Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 143</td>
<td>Computer Service and Repair (LAS Elective)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Professional Elective (see list below)</td>
<td>-</td>
<td>3</td>
</tr>
</tbody>
</table>

### Year 2

<table>
<thead>
<tr>
<th>Term</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td>Science Elective</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>CIS 113 or CIS Elective</td>
<td>CIS Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 144 or 131</td>
<td>Network Security (or Linux Programming)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACC/BUS/MGT/MKT Elective</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Restrictive Elective</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td>CIS 219</td>
<td>Principles Of Information Security</td>
</tr>
<tr>
<td></td>
<td>CIS 141</td>
<td>Supporting Private Clouds</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities Elective</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 118 or 152</td>
<td>Mobile and Web Development (or Computer Science II)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS 224</td>
<td>Beginning Pl/Sql</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 60-61

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1. Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2. CIS 118 Mobile and Web Development or higher.
4. ACC/BUS/MGT/MKT Electives: ACC, BUS, MGT or MKT (BUS 112 Introduction To Customer Relations Recommended)
5. Restrictive Electives: CIS 118 or higher; CAD 101; or CAD 203.
6. Humanities Electives: See Elective Courses by Abbreviation (p. 357).

### Professional Electives

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 106</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>MAT 143</td>
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<tr>
<td>3</td>
</tr>
</tbody>
</table>

See Computer Information Systems program student learning outcomes and technical standards.
Student Success Tips
To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements
Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The CIS 219 Principles Of Information Security course serves as the program's capstone, course. The college's adaptive computer lab, which provides assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=computer+information+systems&SearchType=occupation)
CYBER SECURITY CERTIFICATE (CSC)

This certificate is designed as introductory for students who want to start a career in IT security. Students will learn how to install operating systems and applications and study networking topics. Students will learn how to secure these technologies and protect against possible exploits and attacks. Students may use this certificate as preparation for the CompTIA Security+ SYO-201 exam or as a foundation for ongoing security studies.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>CIS 128 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 140 Microcomputer Networking Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 143 Computer Service and Repair</td>
<td>3</td>
</tr>
<tr>
<td>CIS Elective 1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>CIS 144 Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 141 Supporting Private Clouds</td>
<td>3</td>
</tr>
<tr>
<td>CIS 123 Microcomputer Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIS Elective 1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

1 Any CIS course

See Computer Information Systems program student learning outcomes and technical standards.

**Student Success Tips**

To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.

**Special Requirements**

Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The college's adaptive computer lab, which provides assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.

**Transfer Options**

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Computer Information Systems Degree.

**Career Options/Earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=information+security&SearchType=occupation)
IT SUPPORT SPECIALIST CERTIFICATE (ITC)

This certificate will prepare students for the information technology (IT) field, especially related to IT support specialist and helpdesk entry positions. Students will utilize software applications, networks, and web servers; query database applications to locate, evaluate, and use data; configure, monitor, secure, and administer network resources; as well as demonstrate technical skills and ability in analyzing, assessing, diagnosing, and troubleshooting hardware, software, network, and other desktop issues. Additionally, students may apply this certificate as a step toward the Computer Information Systems (CIS) Degree.

Year 1

<table>
<thead>
<tr>
<th></th>
<th>Fall Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 140</td>
<td>Microcomputer Networking Applications</td>
</tr>
<tr>
<td>CIS 128</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>CIS 143</td>
<td>Computer Service and Repair</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Spring Credits</th>
</tr>
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<tbody>
<tr>
<td>CIS 123</td>
<td>Microcomputer Database Management</td>
</tr>
<tr>
<td>Professional Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>CIS Elective 1</td>
<td>3</td>
</tr>
<tr>
<td>CIS Elective 1</td>
<td>3</td>
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</tbody>
</table>

Total Credits: 24

1  CIS 109 Introduction to Programming or higher.

Professional Electives

<table>
<thead>
<tr>
<th></th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS 112</td>
<td>Introduction To Customer Relations</td>
</tr>
<tr>
<td>ENG 106</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
</tr>
</tbody>
</table>

See Computer Information Systems program student learning outcomes and technical standards.

Student Success Tips

To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.

Special Requirements

Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The college’s adaptive computer lab, which provides assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Computer Information Systems Degree.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=IT+Support+Specialist&SearchType=occupation&EdLevel=all)
SOFTWARE SUPPORT CERTIFICATE (SWC)

The Software Support Certificate is a grouping of courses that will prepare students for jobs in software systems support, end user training, software quality assurance and software documentation. It serves as a foundation to the IT Support Specialist Certificate (ITC) and the Computer Information Systems (CIS) degree.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS 128</td>
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<tr>
<td>CIS 150</td>
<td>3</td>
</tr>
<tr>
<td>CIS 123</td>
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</tr>
<tr>
<td>MAT 143</td>
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<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>CIS 121</td>
<td>3</td>
</tr>
<tr>
<td>CIS 140</td>
<td>3</td>
</tr>
<tr>
<td>CIS 224</td>
<td>3</td>
</tr>
<tr>
<td>BUS 112</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>24</td>
</tr>
</tbody>
</table>

Student Success Tips

To be successful, students must spend additional time outside of class completing assignments. Access to a computer with the appropriate software is essential. MWCC provides computer access in various labs and in the library, as available.

Special Requirements

Students are required to complete the CIS courses as listed. Prior to enrolling in each course, students must ensure they meet the course prerequisites. The college’s adaptive computer lab, which provides assistive technology for students with disabilities, is available. Technical standards must be met with or without accommodations.

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This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Computer Information Systems Degree.

Career Options/Earning Potential

For career options, please click here (https://mwcc.emsicareercoach.com/#action=loadOccupationData&Search=software+support&Featured=&WageLimit=0&OccSearchSort=&EdLevel=all&Clusters=&OccID=15-115100&Cou
PROGRAM STUDENT LEARNING OUTCOMES FOR CIS

Upon graduation from this program, students shall have demonstrated the ability to:

1. Describe how data is organized to serve businesses needs and develop data management skills to organize, query, analyze, and report data.
2. Configure, test, verify, and troubleshoot computer systems and networks (at an introductory level).
3. Describe business’s use of software systems and develop fundamental programming and application skills to support business needs.
4. Describe how to secure data, networks, and systems and implement security measures.
5. Communicate effectively to explain and document computing solutions to both a technical and non-technical audience.

PROGRAM STUDENT LEARNING OUTCOMES FOR CIT

Objectives 1, 3, and 5 above

PROGRAM STUDENT LEARNING OUTCOMES FOR CSC

Objectives 1 and 2 above

PROGRAM STUDENT LEARNING OUTCOMES FOR ITC

Objectives 1 and 2 above

PROGRAM STUDENT LEARNING OUTCOMES FOR SWC

Objectives 1, 2, 3, and 5 above

TECHNICAL STANDARDS ¹ FOR CIT, CIS, CSC, ITC AND SWC

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Read from a computer screen.
- Learn to operate a computer.
- Possess manual dexterity to operate computer devices such as a keyboard and mouse.
- Work at a computer for a minimum of two hours.

CIS 109. Introduction to Programming. 3 Credits.
This course introduces students to fundamental problem-solving and programming concepts using the high-level language Python. Topics covered include data types, variables, constants, decision statements, repetition, functions, string processing and file I/O. Prerequisites: FYE 101, MAT 092, RDG 098, (or placement).

CIS 113. CIS Internship. 3 Credits.
This internship experience will allow students to apply computer information skills, perform information technology tasks and develop professional attitudes while interacting with professionals in the field. Students must pass a CORI check prior to beginning the internship. Placements may be made at a profit or not-for-profit business. The placement must be approved by the professor. The basis for the grade will be a combination of a reflective journal log, student participation, log of hours, and internship supervisor evaluations. Student participation will include sharing their experiences at the internship site, the preparation of a resume, participation in interviewing techniques and mock interviews. The field experience and weekly meetings on campus will equal 120 hours. This is a three-credit course. Prerequisite: The completion of 15 credits in one of the CIS degree or certificate programs and a GPA of 3.0 are required.

CIS 118. Mobile and Web Development. 3 Credits.
This course will cover topics that include web servers, web development software such as Expression Web and Notepad++, web languages (HTML5/XHTML and CSS), as well as mobile and website development. Students will learn how information is transferred over the Internet, how to write HTML5 and CSS code, and how to create, maintain, and publish a website for both mobile
CIS 121. Spreadsheet Applications. 3 Credits.
Students should be comfortable with basic computer usage prior to enrolling in this course. Essential computer skills include utilizing web browsers and email as well as managing files and folders (save, locate, open, create, delete). This course is designed to develop spreadsheet skills, with an in-depth study of spreadsheet design and analysis as they relate to business applications. Topics include the fundamentals of spreadsheet design, coverage of business formulas and functions, linking multiple worksheets and files, proper layout and design, and an introduction to macros using the Visual BASIC for Applications (VBA) language. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

CIS 123. Microcomputer Database Management. 3 Credits.
This course is for students who are already familiar with computer use. Students must know how to use web browsers, email and manage files and folders (save, locate, open, create, delete). This course uses a database software package for a wide range of applications. Students create tables, construct queries, design forms, and generate reports. Students will also utilize constraints, data types, primary and foreign keys; define relationships and database design concepts; as well as import and export external data. Students will create action queries as well as select queries that use aggregate functions, calculated fields, wildcards, keywords, comparison criteria, Boolean terms, and table joins. Prerequisite: MAT 092.

CIS 127. Computer Technologies. 3 Credits.
This course is for students who are already familiar with computer use. Students must know how to use a word processor, web browsers, email and manage files and folders (save, locate, open, create, delete). A variety of computer applications will be used as tools to increase students’ productivity in school and in the workplace as well as enhance their problem solving ability. Students will use utilities to perform basic computer maintenance; evaluate computer hardware and devices for purchase based on need; identify and assess user habits in regard to security threats and vulnerabilities (including viruses, malware, spyware, firewalls, passwords, encryption, and privacy); locate, evaluate and use electronic information sources (including academic databases) to solve problems and enhance software skills; use a spreadsheet application to record data, perform calculations, create graphical representations, and interpret results; write and publish web pages using HTML tags (headings, paragraphs, lists, images, and links) and CSS (color, background, and font family); use Microsoft Access to create and execute queries (with Boolean terms and aggregate functions), as well as assess results; generate reports on tables and query results in Microsoft Access. The goal is for students to become independent users of information, computer technology, and library resources. Students will be expected to communicate and collaborate throughout the course as they present their projects and assignments. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

CIS 128. Introduction to Information Systems. 3 Credits.
This course provides a broad overview of information systems and their components. Students will learn the basic concepts of systems, business and web services software, networks, data storage and management, information and systems security and the development of information systems. Word processing, spreadsheet and database applications are utilized throughout the course to apply concepts to real-world examples. Electronic communication, presentation, and collaboration applications are also utilized to develop essential computing skills. Prerequisite: ENG 098, RDG 098, FYE 101, or placement.

CIS 131. Linux Programming. 3 Credits.
This course provides students a solid foundation in the fundamentals of the Linux operation system. Students gain system level experience through problem solving exercises at the command line and in the graphical use interface. Students learn the essential command-line commands necessary to be accomplished users of their Linux workstations, as well as be able to use the GUI when appropriate. Prerequisite: CIS 140.

CIS 132. iOS (iPhone and iPad) App Development. 3 Credits.
This course will teach you how to make your own iPhone and iPad apps utilizing the Swift language within the xCode IDE on MAC computers. Students (in the on campus class) will not be required to purchase Apple computers to complete classwork; additional lab time will be scheduled for assignments. And open lab time will also be available. Topics covered will include: basic iOS, xCode and Interface Builder, xCode Playground, testing on the iOS Simulator, Storyboards, the Cocoa Touch Frameworks, UIKit, Controls, previous introduction to programming topics (i.e. – variables, control flow, functions, and arrays), classes, and security. Prerequisites: CIS 109 or permission from the instructor. Spring.

CIS 140. Microcomputer Networking Applications. 3 Credits.
This course provides students with the necessary knowledge and skills to perform competently in the role of network administrator or system manager. Major topics include networking concepts, setting up user and group accounts, securing network resources, configuring and administering network printers, backup, auditing events, and monitoring network resources. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.
CIS 141. Supporting Private Clouds. 3 Credits.
This course will instruct future network administrators how to effectively implement and maintain private clouds with a balance of conceptual expertise and hands-on skills. With a focus on server administration, this course will introduce working with Virtual Machines and prepares students to work with large providers such as Amazon, Microsoft, and Google, as well as implement smaller scale cloud computing solutions within their own network environments. Specific topic coverage includes: Introduction to the Private Cloud, Creating and Managing Virtual Machines, Configuring the Hyper-V Environment, Installing and Using Virtual Machine Manager, Installing and Using the Self-Service Portal Using the Virtual Desktop Infrastructure (VDI), Implementing High Availability in the Private Cloud, Managing High-Availability Clusters and Managing the Private Cloud with PowerShell. Prerequisite: CIS 140.

CIS 142. Web Server Management. 3 Credits.
This course teaches students how to support the various features of an Internet information server. Learn how to configure a server for Internet access and publishing. Internet connectivity options, compare Internet and Intranet implementations, install and configure a web server, and optimize server performance. Prerequisite: CIS 140.

CIS 143. Computer Service and Repair. 3 Credits.
This is a current and comprehensive course on configuring, diagnosing, and repairing microcomputers and associated technologies. (PC compatible units are used in this course.) Topics covered include how computers work, how software and hardware work together, the systems board, understanding and managing memory, floppy disk and hard disk drives, installing and supporting disk drives, troubleshooting fundamentals, supporting I/O devices, and multimedia technology. Completion of this course will assist the student in preparing to pass the A+ certification exams and succeed in the PC repair industry. No electronic experience is assumed or required. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

CIS 144. Network Security. 3 Credits.
This hands-on course is designed to prepare students for the security challenges they will face as a networking professional. Specific topic coverage includes: designing a secure network framework, securing servers based on function, designing a secure public key infrastructure, securing the network management process, securing network services and protocols, securing Internet information services, securing VPN and extranet communications, securing active directory, securing network resources, and securing network clients. Prerequisite: CIS 140 or permission of division dean.

CIS 150. Computer Science I. 3 Credits.
This course introduces students to Computer Science through software development using an object oriented programming approach. Programming topics include: data types, expressions, conditions, iteration, arrays, methods, classes and objects. Algorithm development, integrated development environments, debuggers, test plans and documentation is also covered. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

CIS 152. Computer Science II. 3 Credits.
This course builds on the concepts covered in Computer Science I. Programming topics include: inheritance, polymorphism, GUI programming, exceptions, recursion, and file and database input/output. Using object oriented programming (OOP) techniques, an introduction to data structures including stacks and queues is included as well as an introduction to sorting algorithms. Prerequisites: Grade of C or higher in CIS 150 or comparable programming experience. Spring.

CIS 219. Principles Of Information Security. 3 Credits.
This course provides students with a broad overview of information security and serves as the capstone course for the Computer Information Systems degree program. The required networking, database and programming courses for the Information Systems degree program lays a solid foundation for learning information security terminology and measures that protect confidentiality, preserve integrity, and promote availability of data. Topics include security policies, security models, business continuity plans, computer crime and security laws, physical security, operations security, access control, cryptography, Internet security and application development security. Students will complete at least one major research and writing project, at least one oral class presentation, and work on at least one team project. Students should find the topics covered informative and useful for their career in the Information Technology field, and the topics serve as a foundation for advance studies in Information Security. Prerequisite: Completion of 24 CIS credits or permission of division dean.

CIS 224. Beginning Pl/Sql. 3 Credits.
This course is designed to teach data modeling and PL/SQL skills. Students will be able to define a well-structured relational database; use database design concepts to create tables, keys, and constraints; and apply business rules and normalization models while creating ERDs and data dictionaries. Students will also write and run scripts to create tables and insert and delete records. Students will create select queries (using 'where' and 'order by' clauses, aggregate functions, inner and outer joins, and 'having' and 'group by' clauses), as well as action queries to update, delete, and append data. Additionally, students will generate functions, procedures, and triggers. Prerequisites: CIS 150 (or corequisite); CIS 127 or CIS 128. Spring.
CIS 232. Programming C++. 3 Credits.
This course is an introduction to C++ as an object-oriented programming language. The fundamentals of data types, variables, access modifiers, scope, selection structures, repetition structures, functions, and arrays will be covered using C++ classes and objects. Key topics in object oriented program design include encapsulation, information hiding, member access control, constructors, destructors, software reusability, member functions, overloaded functions and operators, and dynamic memory allocation. All students will be expected to write programs in C++ to exercise these topics. Prerequisite: FYE 101, MAT 092, RDG 098, or placement.

CIS 250. Systems Programming. 3 Credits.
This course covers the fundamentals of systems programming. The Linux application programming interface (API) and the C language are used to introduce students to lower-level programming by using system calls and key components of the C library to develop applications and scripts that interface with the operating system. Prerequisites: C or higher in CIS 152, MAT 180. Fall.

CIS 252. Algorithms and Data Structures. 3 Credits.
This course introduces essential data structures and algorithmic analysis for the design of efficient computer programs using an object oriented programming language. Some of the data structures designed and implemented include linked lists, stacks, queues, trees, heaps, hash tables, and graphs. A mathematical framework for evaluating efficiency of algorithms is covered. The analysis of algorithms for searching, traversing trees, hashing, manipulating priority queues, sorting, and finding shortest paths in graphs is included. Recursive algorithms are used when they can improve efficiency. Prerequisites: C or higher in CIS 152, MAT 180. Spring.

CRIMINAL JUSTICE

The Criminal Justice Program at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Law Enforcement or an Associate Degree in Criminal Justice with a career or transfer track. Upon completion of a program, students are prepared for positions in various criminal justice, law enforcement and corrections settings. During the course of study, students will develop skills and competencies in communications, critical thinking, reasoning, and use of terminology of a criminal justice professional. Students will gain knowledge of constitutional processes, substantive law content, and application of appropriate techniques in the investigation, apprehension, prosecution, adjudication, punishment, and rehabilitation of criminal offenders.

CRIMINAL JUSTICE DEGREE—LAW ENFORCEMENT CONCENTRATION (CJL)

The mission statement for the Criminal Justice program at MWCC is to provide students with academic preparation for career entry, transfer to four-year institutions, and life-long learning through a broad-based and comprehensive curriculum, supported by community partnerships and guided by the demand of the criminal justice workforce. The law enforcement concentration emphasizes areas such as community policing, investigation, criminalistics, and the administration of justice. For Massachusetts police officers who qualify for the benefit, the Criminal Justice program is approved as a Police Career Incentive Program by the Massachusetts Department of Higher Education.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
</tr>
<tr>
<td>CJU 131</td>
<td>Introduction To Criminal Justice</td>
</tr>
<tr>
<td>CJU 133</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>CJU 134</td>
<td>Criminal Procedure</td>
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<tr>
<td>CJU 232</td>
<td>Introduction To Criminology</td>
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<td>Science Elective</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>Fall</td>
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</tr>
<tr>
<td>POL 211</td>
<td>Introduction to American Government and Politics</td>
</tr>
<tr>
<td>Restrictive Elective (see list below)</td>
<td>3</td>
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<tr>
<td>CJU 233</td>
<td>Criminal Investigation</td>
</tr>
<tr>
<td>CJU 250</td>
<td>Introduction To Corrections</td>
</tr>
<tr>
<td>CJU 228</td>
<td>Effective Written Communication for the CJ Practitioner</td>
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<tr>
<td>Spring</td>
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</tbody>
</table>
PSY 240, SOC 205, CJU 254, or CJU 260  Abnormal Psychology (or Social Problems or Counseling and Rehab of the Offender or Probation, Parole and Community Corrections)  3

Restrictive Elective (see list below)  3

CJU 245  American Policing (Formerly CJU140)  3
CJU 255  Seminar In Criminal Justice  3
SPC 113 or PHL 110  Speech (formerly THE113) (or Logic)  3

Total Credits:  60-61

1  Science Electives: See Elective Courses by Abbreviation (p. 357). Lab science required for transfer
2  This course should be taken in the semester immediately preceding graduation

RESTRICTIVE ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CJU 110</td>
<td>Introduction To Criminalistics (formerly CJU 234) 1</td>
<td>3</td>
</tr>
<tr>
<td>CJU 252</td>
<td>Internship In Criminal Justice 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 129</td>
<td>Drug Use And Abuse In American Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 208</td>
<td>Juvenile Delinquency</td>
<td>3</td>
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<td>SOC 212</td>
<td>Victimology</td>
<td>3</td>
</tr>
<tr>
<td>PHL 250</td>
<td>Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

1  Recommended

See Criminal Justice program student learning outcomes and technical standards

Student Success Tips

Academic and career advising sessions with a Criminal Justice advisor are highly recommended. Cooperative education, volunteer, and/or service learning experiences may increase chances of employment. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computers, smartphones or tablets. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options

For transfer options, please click here (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements

Students enrolled in the Criminal Justice program are not eligible for life experience, police academy, armed services, or Tech Prep credits, and are limited to six credits total in CLEP, DSST, and challenge exams. Only courses completed at institutions accredited by appropriate regional institutional accrediting agencies may be transferred into the program. Transfer students are required to complete at least three of their required Criminal Justice courses (nine credits) at MWCC. Students seeking to participate in internships may be subject to meeting additional technical standards and requirements which may include immunizations, a criminal/sexual offender records information check (CORI/SORI), fingerprinting, and drug testing. Some of these may be completed at student’s expense. Technical standards must be met with or without accommodations.

Career Options/Earning Potential

For career options, please click here (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=criminal+justice+law+enforcement&amp;SearchType=occupation) Also, please visit the Massachusetts Career Information System (https://masscis.intocareers.org/materials/portal/home.html) and the Occupational Outlook Handbook (http://www.bls.gov/ooh/) for more information.
CRIMINAL JUSTICE DEGREE - TRANSFER TRACK (CJT)

The Criminal Justice -Transfer Track has been developed in conjunction with the state Board of Higher Education initiatives to align transferability of all credits earned at MWCC. Interested students should check the Massachusetts Department of Higher Education Website A2B Degree site to get an updated list of the which baccalaureate institutions partner with MWCC Criminal Justice program in this endeavor and the related requirements associated to transfer.

### Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>ENG 101 College Writing I</td>
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<td>SOC 103 Introduction To Sociology</td>
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<td>MAT 143 Statistics</td>
<td>3</td>
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<td>CJU 131 Introduction To Criminal Justice</td>
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<td>CJU 133 Criminal Law</td>
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<td>ENG 102 College Writing II</td>
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<td>PSY 105 Introduction To Psychology</td>
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<tr>
<td></td>
<td>CJU 134 Criminal Procedure</td>
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</tr>
<tr>
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<td>CJU 232 Introduction To Criminology</td>
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<td>Science Elective 1</td>
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</table>

### Year 2

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<tr>
<th>Semester</th>
<th>Course</th>
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<tr>
<td>Fall</td>
<td>POL 211 Introduction to American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJU 233 Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities Elective 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJU 228 Effective Written Communication for the CJ Practitioner</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJU 250 Introduction To Corrections</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>SPC 113 Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Lab Science Elective 3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Humanities Elective 4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJU 245 American Policing (Formerly CJU140)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJU 255 Seminar In Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Credits:</td>
<td>61-62</td>
</tr>
</tbody>
</table>

1. Science Electives: See Elective Courses by Abbreviation (p. 357). EAS 130 is suggested.
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357). ENG 106 and/or HUM 240 recommended.
3. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Humanities Electives: See Elective Courses by Abbreviation (p. 357). PHL 110 or PHL 250 recommended.

**Student Success Tips**

Academic and career advising sessions with a Criminal Justice advisor are highly recommended. Cooperative education, volunteer, and/or service learning experiences may increase chances of employment. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computers, smartphones or tablets. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

**Transfer Options**

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**MassTransfer**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)
Special Requirements
Students enrolled in the Criminal Justice program are not eligible for life experience, police academy, armed services, or Tech Prep credits, and are limited to six credits total in CLEP, DSST, and challenge exams. Only courses completed at institutions accredited by appropriate regional institutional accrediting agencies may be transferred into the program. Transfer students are required to complete at least three of their required Criminal Justice courses (nine credits) at MWCC. Students seeking to participate in internships may be subject to meeting additional technical standards and requirements which may include immunizations, a criminal/sexual offender records information check (CORI/SORI), fingerprinting, and drug testing. Some of these may be completed at student's expense. Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=criminal+justice+corrections&SearchType=occupation) Also, please visit the Massachusetts Career Information System (https://masscis.intocareers.org/materials/portal/home.html) and the Occupational Outlook Handbook (http://www.bls.gov/ooh/) for more information.

LAW ENFORCEMENT CERTIFICATE (CJLC)
Developed in cooperation with the Massachusetts Chiefs of Police Association, the Law Enforcement Certificate program prepares students for a career in law enforcement. The certificate combines specialized criminal justice and general education coursework to provide students with the knowledge and skills they need to compete for entry into the Massachusetts law enforcement field. All of the credits earned in the certificate program can be applied to an associate degree in criminal justice, which may result in increased compensation and may qualify the certificate holder for shortened municipal police training academy.

There are several good reasons to pursue or continue your education in criminal justice:

1. It is one of the fastest growing job markets in the nation;
2. As crime changes and criminals become more sophisticated, criminal justice professionals must increase their knowledge, skills, and sophistication in enforcing laws;
3. The public continues to demand higher standards and effectiveness of law enforcement officials;
4. Through various pay incentive programs, police may receive salary increases by pursuing higher education;
5. And criminal justice is a good foundation for those pursuing a career in law.

MWCC’s outstanding criminal justice faculty includes working practitioners and instructors with expertise in law enforcement, prosecutorial systems, and corrections.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJU 131</td>
<td>Introduction To Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJU 133</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJU 134</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CJU 232</td>
<td>Introduction To Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJU 228</td>
<td>Effective Written Communication for the CJ Practitioner</td>
<td>3</td>
</tr>
<tr>
<td>CJU 245</td>
<td>American Policing (Formerly CJU140)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 27

See Criminal Justice program student learning outcomes and technical standards

Student Success Tips
Academic and career advising sessions with a criminal justice advisor are highly recommended. Cooperative education, volunteer, and/or service learning experiences may increase chances of employment. Students who are pursuing a career in law enforcement or police services are encouraged to complete the Associate Degree in Criminal Justice. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via...
desktop/laptop computers, smartphones or tablets. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Special Requirements
Students enrolled in this certificate are not eligible for life experience, police academy, armed services, or Tech Prep credits and are limited to six credits total in CLEP, DANTES, and challenge exams. Only courses completed at institutions accredited by appropriate regional institutional accrediting agencies may be transferred into the program. Students seeking to participate in internships may be subject to meeting additional technical standards and requirements which may include immunizations, a criminal/sexual offender records information check (CORI/SORI), fingerprinting, and drug testing. Some of these may be completed at student’s expense. Technical standards must be met with or without accommodations.

Transfer Options
This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Criminal Justice Degree.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=criminal+justice+corrections&SearchType=occupation) Also, please visit the Massachusetts Career Information System (https://masscis.intocareers.org/materials/portal/home.html) and the Occupational Outlook Handbook (http://www.bls.gov/ooh/) for more information.

PROGRAM STUDENT LEARNING OUTCOMES FOR CJT, CJL AND CJLC
Upon graduation from these programs, students shall have demonstrated the ability to:

• Identify specific crime typologies and offender profiles
• Explain the basic concepts, operations, and services of the primary agencies that make up the criminal justice system
• Explain Constitutional processes, substantive law content, and application of appropriate techniques in the investigation, apprehension, prosecution, adjudication, punishment, and rehabilitation of criminal offenders
• Analyze theoretical perspectives on criminality and social deviance
• Demonstrate essential skills including reading, writing, communicating, critical thinking, reasoning, and knowledge and use of terminology of a criminal justice professional
• Complete various criminal justice system reports in a professional and competent manner with narratives that are complete, accurate, and sufficient for their stated purposes;
• Apply skills and knowledge necessary for entry-level positions and/or continued study in criminal justice or related fields;
• Analyze current issues facing the criminal justice system and ethical choices confronting criminal justice practitioners and
• Analyze career opportunities and assess skills and abilities in relationship to specific positions.

TECHNICAL STANDARDS 1 FOR CJT, CJL, AND CJLC
1 For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information in either printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Observe, investigate, make appropriate determinations at mock crime scenes, and problem solve.
• Function as a team leader, including giving directions and providing advocacy.
• Maintain cleanliness and personal grooming consistent with close personal contact and
• Operate a computer or smart phone, with or without adaptation.
CJU 110. Introduction To Criminalistics (formerly CJU 234). 3 Credits.
This course is designed to introduce the concepts involved in the field of criminalistics. The students will be introduced to the concepts of criminalistics from the professional and scientific disciplines dedicated to the recognition, collection, identification, and individualization of physical evidence. The application of the natural sciences to matters of the law will be examined. Actual court cases will be used to illustrate facilitation of the identification process, and students will learn to prepare crime scene evidence reports. Practical application of selected laboratory procedures may be included. Prerequisites: ENG 098, RDG 098, (or placement).

CJU 131. Introduction To Criminal Justice. 3 Credits.
Students survey the criminal justice system in the United States including its main components: law enforcement, courts, and corrections. Special emphasis is placed on the sequence of events and decision points within the system, as well as historical and societal influences, and student will utilize various assigned sources to prepare incident and police reports. The functions of federal, state, county, and local agencies are examined. A brief overview of the juvenile system is included. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. This course should be taken during a student's first semester as a Criminal Justice major.

CJU 133. Criminal Law. 3 Credits.
This course studies the nature, aims, purposes, and principles of criminal law, including both the general and specific parts of the law of crimes. Emphasis is placed on critical analysis of specific elements, rules, doctrines, and defenses. Students actively participate by applying knowledge of laws and doctrines to actual cases through written and oral exercises including multiple case briefs. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

CJU 134. Criminal Procedure. 3 Credits.
Emphasis is placed on the constitutional authority to apply the process of enforcement of the law. Attention is given to admissibility of evidence used to convict. Through case study, procedural matters affecting the criminal justice system such as arrest, search and seizure, warrants, admissions, stop and frisk, and identification, pretrial proceedings, conviction, and post-conviction processes are examined, and student will utilize contemporary sources to prepare memorandums and case briefs illuminating assigned coursework. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

CJU 228. Effective Written Communication for the CJ Practitioner. 3 Credits.
This course is designed to develop the technical writing skills of students intending to become criminal justice practitioners. Students will develop the written communications skills needed to write research papers, reports, affidavits, crash reports, and complaint applications; and to produce legal and investigative materials which are complete and accurate, as well as prepare other types of written communications commonly used by the major agencies within the criminal justice system. This is a hybrid course which will meet one hour each week, and internet access will be required. Prerequisite: ENG 101.

CJU 232. Introduction To Criminology. 3 Credits.
Students will explore patterns of adult criminal and juvenile delinquent behavior through the examination of theories from a biological, psychological, and sociological perspective. The concept of crime as a social problem and efforts to measure the nature and extent of crime will be examined. Typologies of crime are studied, and schools of thought and various approaches to crime causation will be considered, and students will utilize current news sources to prepare memorandums illuminating assigned coursework. This course should be taken during a student's second semester as a Criminal Justice major. Prerequisite: SOC 103.

CJU 233. Criminal Investigation. 3 Credits.
This course examines the science and art of criminal investigation. Crime science and its specialized procedures and techniques related to physical evidence, interviews, rules of evidence, the investigator as a witness, and the investigative process to include follow-up investigations will be examined. Cases may be included to illustrate the investigative process. Practical application of selected laboratory procedures may be included. Student will apply what they have learned via written research projects examining important contemporary criminal trends and/or events. Prerequisite: CJU 134 or permission of the division dean. Fall.

CJU 245. American Policing (Formerly CJU140). 3 Credits.
This course provides the criminal justice student with an in-depth understanding of the history, development and philosophy of American policing. Students survey the roles, operation, procedures and organizational structure used in modern law enforcement. Attention is given to ethical practices, police interaction with diverse cultures, and the importance of communication. The course emphasizes patrol and community as the mainstay of policing. Current problems, recent innovations and law enforcement as a lifelong career are included topics. Students will write about the impact of contemporary policing initiatives on criminal behavior. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

CJU 250. Introduction To Corrections. 3 Credits.
This course surveys the historical, political, legal, and sociological aspects of the United States correctional system. Students examine differing philosophies and purposes of punishment, particularly as they impact correctional policy and practice. Emphasis is on studying various types of offenders within the system and understanding major issues regarding contemporary methods of handling criminal offenders. Students will write on a topic within the field of corrections (e.g., a specific gang, rival gangs, prison systems from
different countries, various types of prison construction, the death penalty, etc.), answering questions including history, purpose, and evolution. Prerequisite: CJU 131.

**CJU 252. Internship In Criminal Justice. 3 Credits.**
This field experience involves extensive observation of and interaction in selected agencies. Placements include police departments, courts, probation, juvenile services, parole, correctional facilities, training academies, and related areas such as residential treatment programs. Students obtain a basic knowledge and understanding of the practical aspects of criminal justice through observation and selected participation. One seminar hour and eight hours of field experience per week are required. A consideration for placement will be the student's appropriate qualifications in relation to a specific agency. Students will maintain a weekly journal highlighting their on site learning. Prerequisites: completion of at least two criminal justice courses, sophomore status, and permission of division dean.

**CJU 255. Seminar In Criminal Justice. 3 Credits.**
In this capstone course, students analyze and articulate contemporary themes in order to demonstrate their mastery of the content of completed required courses within the degree. Students are required to read selected materials and analyze key topics in a seminar format. Students develop and prepare a major analytical research paper and conduct a seminar for fellow students. This course should be taken in the semester immediately preceding graduation. Prerequisites: ENG 102; completion of all required criminal justice courses (CJU 131, CJU 133, CJU 134, CJU 228, CJU 232, CJU 250), and at least one restrictive elective, or permission of division dean.

**DENTAL EDUCATION**
The Dental Education Program at Mount Wachusett Community College provides students with the opportunity to earn a Dental Assisting Certificate or an Associate Degree in Dental Hygiene. Upon completion of either program, students are prepared for positions in various healthcare settings. During the course of study, students will develop skills and competencies to prepare for state and national licensure Exams.

**DENTAL HYGIENE DEGREE (DHY) (DAY ONLY) (SELECTIVE)**
The registered dental hygienist is the member of the dental health care team who provides preventive oral health care services, including oral prophylaxis, dental health education, dental x-rays, nutritional counseling, dental sealants, preliminary examinations, and other preventive measures in dentistry. Students will take the National Dental Hygiene Board Examination and The Commission on Dental Competency Assessments (CDCA) Clinical Examination upon successful completion of the Dental Hygiene program. The Dental Hygiene program is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of “approval without reporting requirements.” The Commission is a specialized accreditation body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653, at the commission's web address (http://www.ada.org/100.aspx), or at 211 East Chicago Ave., Chicago, Illinois 60611.

**Prerequisite Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
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**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>BIO 205</td>
<td>Microbiology</td>
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<tr>
<td>DHY 101</td>
<td>Anatomic Science For The Dental Hygienist I</td>
<td>3</td>
</tr>
<tr>
<td>DHY 102</td>
<td>Dental Hygiene Process Of Care I</td>
<td>5</td>
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<tr>
<td>DHY 103</td>
<td>Dental Radiology</td>
<td>3</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DHY 105</td>
<td>Anatomic Science For The Dental Hygienist II</td>
<td>3</td>
</tr>
<tr>
<td>DHY 106</td>
<td>Dental Materials</td>
<td>3</td>
</tr>
<tr>
<td>DHY 107</td>
<td>Periodontology</td>
<td>3</td>
</tr>
<tr>
<td>DHY 108</td>
<td>Dental Hygiene Process Of Care II</td>
<td>6</td>
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**Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DHY 205</td>
<td>Pain Control</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
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**Year 2**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>
Recommended completion prior to program application

1. DHY 101 Anatomic Science For The Dental Hygienist I, DHY 102 Dental Hygiene Process Of Care I and DHY 103 Dental Radiology must be taken concurrently.

2. DHY 105 Anatomic Science For The Dental Hygienist II, DHY 106 Dental Materials, DHY 107 Periodontology and DHY 108 Dental Hygiene Process Of Care II must be taken concurrently.

3. DHY 201 Oral Pathology, DHY 202 Pharmacology For The Dental Hygienist, DHY 203 Dental Hygiene Process Of Care III must be taken concurrently

4. DHY 207 Dental Hygiene Process Of Care IV, DHY 208 Dental Ethics And Professional Issues, DHY 209 Community Oral Health must be taken concurrently

5. Humanities Electives: See Elective Courses by Abbreviation (p. 357).

See Dental Education program student learning outcomes and technical standards.

**Application Deadline**

The application deadline is February 1. This selective enrollment program requires additional application components. The selection process is competitive and space is limited.

**Requirements for Consideration**

Applicants must meet certain academic standards. See the Selective Program Requirements (p. 25) of the college catalog for specific details or refer to the program application available on the MWCC website or through the admissions office. Prior to admission, prerequisite courses needed are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>

1. Not MAT 140 Elements Of Mathematics I

**Campus**

The Dental Hygiene Program is offered at the Fitchburg campus only.

**Student Success Tips**

Because of an extensive classroom/clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning dental hygiene courses.

Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.
Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements
Students seeking to participate in the dental hygiene program may be subject to meeting additional technical standards and requirements, which may include immunizations, CPR certification, liability insurance, a Criminal/Sexual Offender Records Information (CORI/SORI) check, fingerprinting, and drug testing. Some of these may be done at the student’s expense. (See Selective Program Requirements (p. 25).)

All BIO, MAT (prerequisite) and DHY courses require a minimum grade of C+ or better to be eligible for promotion to the next level. Also BIO 203 Anatomy and Physiology I (formerly BIO 199), BIO 204 Anatomy and Physiology II, and BIO 205 Microbiology must be completed no more than ten years prior to the program’s application deadline.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=dental+hygiene&SearchType=occupation)

DENTAL ASSISTING CERTIFICATE (DAC)
The duties of a dental assistant are among the most comprehensive and varied in the dental office. The dental assistant performs many tasks requiring both interpersonal and technical skills including: assisting the dentist during a variety of treatment procedures; taking and developing dental radiographs (X-rays); taking impressions of patients’ teeth for study models; providing patients with instructions for oral care following surgery or other dental treatment procedures; serving as an infection control officer and preparing and sterilizing instruments and equipment; and office management tasks such as record keeping, billing, inventory control, scheduling and reception duties. Students are eligible to sit for the Dental Assisting National Board Examination (DANB) upon successful completion of the Dental Assisting program. The program in dental assisting is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of “approval without reporting requirements”. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653, at the commission's web address (http://www.ada.org/100.aspx), or at 211 East Chicago Ave., Chicago, Illinois 60611.

**Prerequisite Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 152</td>
<td>Essentials of Anatomy and Physiology ¹</td>
<td>4</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Year 1**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>DAC 101</td>
<td>Dental Assisting</td>
<td>3</td>
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<tr>
<td></td>
<td>DHY 106</td>
<td>Dental Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DAC 102</td>
<td>Dental Science I</td>
<td>4</td>
</tr>
<tr>
<td>Intersession</td>
<td>DAC 104</td>
<td>Practice Management</td>
<td>2</td>
</tr>
<tr>
<td>Spring</td>
<td>DHY 103</td>
<td>Dental Radiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DAC 105</td>
<td>Dental Science II</td>
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</tr>
<tr>
<td></td>
<td>DAC 110</td>
<td>Prevention</td>
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**Year 2**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Summer</td>
<td>DAC 115</td>
<td>Clinical Rotation ²</td>
<td>7</td>
</tr>
</tbody>
</table>

Total Credits: 42-43
BIO 203 ANATOMY AND PHYSIOLOGY I (FORMERLY BIO 199) AND BIO 204 ANATOMY AND PHYSIOLOGY II MAY BE TAKEN IN PLACE OF BIO 152 ESSENTIALS OF ANATOMY AND PHYSIOLOGY. GRADE MUST BE A C+ OR BETTER.

The clinical rotation may be scheduled during daytime office hours

See Dental Education program student learning outcomes and technical standards.

Requirements for Consideration

Student must achieve a C+ or better and maintain in sequence with all coursework. Students are required to earn a C+ or better in three prerequisite courses before taking DAC courses: BIO 152 Essentials of Anatomy and Physiology, and ENG 101 College Writing I, MAT 126 Topics In Mathematics.

Campus

The Dental Assisting Program is offered at the Fitchburg campus only.

Student Success Tips

Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Dental Hygiene Degree.

Special Requirements

Students seeking to participate in the dental assisting program may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, liability insurance, a Criminal/Sexual Offender Records Information (CORI/SORI) check, fingerprinting, and drug testing. Some of these may be done at the student’s expense.

All BIO, MAT, and DAC courses require a minimum grade of C+ or better to be eligible for promotion to the next level.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=dental+assisting&amp;SearchType=occupation&amp;EdLevel=all)

PROGRAM STUDENT LEARNING OUTCOMES FOR DAC

Upon graduation, students completing the certificate program in Dental Assisting would be expected to have the following competencies:

• Communicate effectively and accurately through oral, written and electronic means.
• Demonstrate the application of theory to practice in achieving optimal patient care.
• Practice within the legal, ethical and regulatory framework of dental assisting in accordance with the standards set by the State Practice Act and Code of Ethics for Dental Assistants.
• Demonstrate a commitment to the dental assisting profession through assuming responsibility for lifelong learning and professional growth.

PROGRAM STUDENT LEARNING OUTCOMES FOR DHY

• Communicate effectively and accurately through oral, written and electronic means.
• Demonstrate application of theory to practice in achieving optimal patient care.
• Utilize methods of scientific investigation in developing a comprehensive plan of care.
• Implement comprehensive education plans that promote health and identify risk behaviors in individuals and groups of patients for both community and clinic settings.
• Practice within the legal, ethical and regulatory framework of dental hygiene in accordance with the standards set by the State Practice Act and Code of Ethics for Dental Hygienists.
• Demonstrate a commitment to the Dental Hygiene profession through assuming responsibility for lifelong learning and professional growth.

Dental Hygiene Program Student Learning Outcomes define the knowledge, skills and professional values necessary for entry into professional dental hygiene practice in clinical and alternative settings.
TECHNICAL STANDARDS ¹ FOR DHY AND DAC

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to have/demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information in either printed, signed or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Have the visual acuity with corrective lenses to identify changes in oral tissues.
- Discern changes in color, texture and shape of tissues. Ability to differentiate among subtle shades of gray as seen on radiographs.
- Have sufficient physical ability to perform cardiopulmonary resuscitation in the handling of a medical emergency.
- Have sufficient communication (oral and/or written) ability to question the patient about his/her medical condition and to relay information about the patient to others in English.
- Have sufficient manual dexterity with two hands to manipulate instruments with precision and control in the oral cavity without causing damage to tissues. This skill may not be fully evaluated until the preclinical portion of the curriculum.
- Have a sense of touch that allows for assessment and palpation of oral tissues.
- Sit for prolonged (up to four hours) periods of time.
- Operate and manipulate mechanical equipment, e.g.: dials, switches, push buttons, syringes, and blood pressure measurement devices.
- Pick up items of very small (2mm in width, 21 mm in length minimum) and varying diameters.
- Use upper body movements (up to five feet) to grasp, push/pull, reach overhead equipment, and to rotate and reach laterally.
- Lift, carry, and move equipment and supplies up to 10 pounds.
- Wear protective equipment such as gloves, face masks, face shields, and protective eye wear.

DAC 101. Dental Assisting. 3 Credits.
This course provides an introduction to organized dentistry and the fundamentals of dental practice. The roles and qualifications of dental health care members according to the state dental practice act, an exploration of the dental specialties and assisting a dentist chairside will be the focus of the instruction. A comprehensive review of the skill sets needed for competency in four and six handed dentistry will include providing instrument transfer, a clear operating field through proper lip and tongue retraction, use of high volume evacuation and properly adjusting the light. Identification and knowledge of instrument use as each relate to a dental procedure will be a foundation for anticipatory chairside abilities. Laboratory and clinical sessions will also provide instruction and practice in supportive techniques such as placement of the rubber dam and matrix bands, charting and recording an oral exam, and sterilization and aseptic techniques. Exposure control, OSHA regulations, and hazard control recommendations will be introduced and reinforced throughout the course. Prerequisites: Current CPR certification, ENG 101, MAT 126 and BIO 152 or BIO 203 and BIO 204 with a C+ or higher. Fall.

DAC 102. Dental Science I. 4 Credits.
This course will introduce the student to oral embryology and histology, anatomy of the head and neck with a focus on oral anatomy, tooth morphology, and individual tooth identifications. The second half of the course will focus on microbiology, disease transmission and infection control. Learning opportunities will be offered in the form of lecture and demonstration, with the aid of anatomical models and extracted teeth so that the student will be prepared to identify individual structures of the mouth in preparation of lab and clinical experience. Prerequisites: Current CPR certification, ENG 101, MAT 126 and BIO 152 or BIO 203 and BIO 204 with a C+ or higher. Fall.

DAC 104. Practice Management. 2 Credits.
This course provides an introduction to basic practice management skills, business operating systems and financial management in a dental office. The components of the business operating system of an office will be introduced as will the skills needed in the financial management of an office. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

DAC 105. Dental Science II. 4 Credits.
This course will introduce oral pathology including diseases, lesions, conditions and disorders of the oral cavity followed by an investigation of caries and periodontal disease and the etiology, risk assessment and preventive measures for them. Pharmacology and the Management of Emergencies will be covered in the later part of the course. The student is provided with information and practice opportunities in dental and medical emergencies. Prerequisites: Current CPR certification, DAC 102. Spring.
**DAC 110. Prevention. 3 Credits.**
This course provides an introduction to Preventive Dentistry. The components of a comprehensive preventive program will include knowledge and theory of the roles nutrition, patient education, plaque control therapy, fluoride therapy and sealants have in preventive dentistry. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, practice and manipulate on topical mannequins and then synthesize this learning by using peer partners. The student will be required to state the rationale and demonstrate proper technique for each preventive dental skill. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

**DAC 115. Clinical Rotation. 7 Credits.**
This course is integral for the student dental assistant to develop the functions introduced in the curriculum from a level of minimal competence to one of optimum proficiency. During this immersion experience students will rotate through two dental practices actively assisting and participating in patient care. A daily record of professional activities, including each clinical procedure assisted in and performed, and supportive lab and office procedures will be kept and provided for the course instructor to read and respond to. Seminars will be conducted weekly with a focus and discussion on an assigned area, with a case base presentations format. Prerequisites: Current CPR certification; DAC 101, DAC 102, DHY 106, DAC 104, DHY 103, DAC 105 and DAC 110. Summer.

**DHY 101. Anatomic Science For The Dental Hygienist I. 3 Credits.**
This course will introduce the student to the anatomy and histology of each tooth and all structures of the oral cavity. Learning opportunities will be offered in the form of lecture and demonstration, with the aid of anatomical models and tooth models so that the student will be prepared to identify individual structures of the mouth in preparation of clinical experience. The student will draw extensively on prior learning from principles associated with anatomy and physiology. Additionally, microbiology will be taken either prior to or concurrently and provide a framework for analysis within the scope of oral hygiene, tissues, and structure. Histology and embryology of the oral tissues and face, anatomy of the head and neck, tooth morphology, development and function, and individual tooth identification and morphology of the primary and permanent dentition will be covered. This course gives the dental hygiene student basic anatomical knowledge to utilize in the clinical component of the program. Prerequisite: Admission to Dental Hygiene program, current CPR certification, BIO 203, BIO 204, ENG 101, MAT 126. Corequisite: BIO 205, DHY 102, DHY 103.

**DHY 102. Dental Hygiene Process Of Care I. 5 Credits.**
This course provides an introduction to the clinical experience. The student is expected to develop an understanding of sterilization, aseptic techniques, and infection control. Additionally, the student is introduced to instrumentation and the proper use of dental apparatus. Essential management techniques for dental and medical emergencies are also introduced. The student is provided with initial exposure to the culture and climate of dental hygiene practice and given beginning knowledge of how to function in such an environment. Dental Hygiene Process and Care I (Pre-Clinic) is an introduction to the practice of dental hygiene. Content is heavily focused on assessment of health, safety, risk management, and patient needs. Additionally, time will be spent on identifying instruments and their proper application. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, practice and manipulate anatomical mannequins, and then synthesize this learning by using peer partners. Additionally, the student is provided with information and practice opportunities in dental and medical emergencies. In this fundamental skill course, students are introduced to the dental hygiene process through lecture and laboratory sessions. The theoretical concepts presented in lecture are expanded upon and applied in the laboratory sessions. Emphasis is placed on patient-client rationale and demonstrates proper techniques for each basic dental hygiene skill. Students must pass both laboratory and theoretical components of the course in order to continue in the program. To aid the student in the successful completion of the course, a progress report will be given to each student at the end of the eighth week of class. If any student obtains an unfavorable progress report, it becomes their responsibility to seek out their clinical instructors and/or course instructors for extra assistance. Prerequisites: Admission to Dental Hygiene program, current CPR certification, BIO 203, BIO 204, ENG 101, MAT 126. Corequisites: BIO 205, DHY 101, DHY 103.

**DHY 103. Dental Radiology. 3 Credits.**
This course is designed to introduce the student to the principles, theory and techniques of dental radiography. The student will become familiar with the history of dental radiographs, radiation physics, radiation hazards and protection, use of equipment, ionizing and digital processing, panoramic radiography, processing, mounting and radiographic interpretation of anatomic landmarks, including recognizing disease processes and deviations from normal anatomy. Using ADA guidelines, and ALARA principles the student will produce the highest diagnostic radiographs while exercising all the principles of radiation health and safety. Quality assurance and alternate and emerging radiographic imaging modalities are discussed. The laboratory component will focus on taking theory into practice for paralleling, bisecting, panoramic, occlusal and supplemental radiographic techniques. Upon completion of this course, the student will be able to expose, process, and mount a quality series of intraoral and extraoral radiographs to proficiency on the adult and child patient. Prerequisites: Dental Hygiene Prerequisites: Admission to the Dental Hygiene Program, current CPR Certification, BIO 203, BIO 204, ENG 101, MAT 126; Corequisites: DHY 101, DHY 102; Dental Assisting Certificate Prerequisites: current CPR Certification, DAC 101, DAC 102, DAC 104, DHY 106; Corequisites: DAC 105, DAC 110.
DHY 105. Anatomic Science For The Dental Hygienist II. 3 Credits.
This course will provide a theoretical and practical study of the head, neck, face, and oral cavity. Included are the bones and their landmarks, nerves and their landmarks, arterial blood supply, venous drainage, temporomandibular joint, lymphatics, fascia, spaces and the spread of dental infection. Muscles of the head, neck and masticatory system will also be studied. The lymphatic system, its function, and differences in the lymphatic system in health and disease will be covered. The temporomandibular joint, jaw movements with muscle relationships, and joint disorders will be studied. Fascia, spaces, the infectious process and the spread of dental infections will also be studied. This will enable the student to integrate the knowledge of the spread of dental infection into clinical dental practice. Review of landmarks for the administration of local anesthesia will be covered in depth. The student will gain knowledge into. The student will gain knowledge into the supporting structures of the head and neck and will be able to incorporate knowledge previously acquired in Anatomic Science I for the Dental Hygienist. Prerequisite: BIO 205, DHY 101, DHY 102, DHY 103.
Corequisite: DHY 106, DHY 107, DHY 108.

DHY 106. Dental Materials. 3 Credits.
This course introduces the student to various types of dental materials used in dental practices. It allows the student to begin to understand the properties of the materials and actually manipulate them and provides the foundation for current practice in dental care. These materials include restoration materials (metals/composites), impression materials, sealants, mouth guards, prosthetics, tooth whitening, and temporary restorations. The student will learn to mix and prepare the various materials used. The role of the allied dental personnel in the manipulation and application of these materials is stressed. The classroom component will introduce the student to the properties of the materials and how to mix them proportionately. Emphasis is on the section, manipulation, and clinical management of dental materials particularly from the dental hygiene and dental practice perspective. Focus will be placed on the composition, chemistry, clinical properties, mixing techniques, advantages, disadvantages and setting times of more common materials utilized in the dental setting. The relationship between the oral environment and dental materials is also examined. Lab session are integrated with lectures to provide the student with opportunities to practice various techniques such as sealants, amalgam finishing and theoretical components of the course in order to continue in the program. Students must pass both the laboratory and theoretical components of the course in order to continue in the program. Dental Hygiene Prerequisites: BIO 205, DHY 101, DHY 102, DHY 103. Corequisites: DHY 105, DHY 107, DHY 108. Dental Assisting Prerequisites: BIO 152 and MAT 126.
Corequisites: DAC 101 and DAC 102.

DHY 107. Periodontology. 3 Credits.
This course introduces the student to the healthy periodontium and periodontal diseases. Included are the classifications of periodontal diseases, the oral microbiology and periodontal diseases, local contributory risk factors and systemic risk factors for periodontal diseases, host immune response, and the histopathogenesis of periodontal diseases. The student will become familiar with gingival, periodontal, and radiographic assessment of periodontal diseases. Using an evidence-based approach, along with case studies, treatment modalities will be discussed with emphasis placed on dental hygiene diagnosis, treatment planning, clinical management, and evaluation of periodontal patients. Information in this course will build upon oral anatomy, microbiology, and pre-clinical dental hygiene concepts presented in the fall semester. Prerequisites: DHY 101, DHY 102, DHY 103. Corequisites: DHY 105, DHY 106, DHY 108.

DHY 108. Dental Hygiene Process Of Care II. 6 Credits.
This course provides a progression for the student from the content learned in DHY 102 Dental Hygiene Process of Care I. The major transition lies in students beginning to treat patients rather than practicing on mannequins. Content is heavily focused on assessment of health, safety, risk management, medical emergencies, and patient needs, along with treatment planning and beginning implementation. Additional emphasis is focused on patients with special needs, nutrition, and patient education. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material and transfer this knowledge to work with patients in the clinic setting. Clinical experience is included on the child, adolescent and young adult patient. Prerequisite: BIO 205, DHY 101, DHY 102, DHY 103. Corequisite: DHY 105, DHY 106, DHY 107.

DHY 201. Oral Pathology. 2 Credits.
This course is an introduction to the study of oral and systemic diseases and disorders. Students will learn the principles of pathology in relation to disease of the head, teeth, soft tissues, and supporting structures of the oral cavity. It will familiarize students with the differential identification of normal oral tissues, oral lesion, and oral lesions due to systemic disease. The basis of instruction is derived from the paradigm of oral health and its juxtaposition to disease. Content will include discussion of inflammatory and immunologic process, development disorders, neoplasias, infections and diseased of the blood, bone, immune and endocrine systems. Other common pathology, such as oral cancer, leukoplakia, and nicotine stomatitis are covered in detail. As a supplement to clinical instruction, this course will provide a greater understanding of disease diagnosis, etiology, and pathogenesis. Diseases of the oral tissues and oral environs are presented with clinical features, some histopathology for explanation, course of disease(s), and treatment modalities. The purpose of this course is to instruct the student in recognition of anomalies and disease through the framework of a healthy patient. The students will be able to utilize the intraoral camera to reinforce their understanding of oral pathology. The
parameters for normal dental health are taught in order to provide the basis of identification of illness and dysfunction. Prerequisites: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisites: DHY 202, DHY 203, PSY 105.

DHY 202. Pharmacology For The Dental Hygienist. 3 Credits.
This course will address the interaction of pharmacologic agents on the body systems. This course provides students with the understanding of the pharmacological management of patients, the mechanisms of action of drugs and interactions associated with dental treatment. Drugs commonly used in dentistry and other classes of drugs, their effects on the body in care planning and treatment planning will be addressed. Emphasis is placed on mechanisms of action, common usages, side effects, implications for dental treatment and case studies. Nitrous oxide sedation will also be introduced along with the pharmacological aspects of general anesthesia. Prerequisite: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisite: DHY 201, DHY 203, PSY 105.

DHY 203. Dental Hygiene Process Of Care III. 5 Credits.
This course provides a progression for the student from content learned in DHY 108. The major transition lies in students treating patients with simple care to care of the more complex periodontal patient. Content is heavily focused on advanced instrumentation, health promotion, care planning, and treatment planning using advanced pain control techniques and medicaments for the complex periodontally involved patient. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, and transfer this knowledge to work with patients in the clinic setting. This theory related practice assists the student in further developing critical thinking skills in the delivery of more complex patient care. There is an emphasis on the treatment of periodontal patients, advance dental caries and dentinal sensitivity. Total care of the patient is also expected at this point in the curriculum, utilizing a case centered approach. Lecture topics will be directed at the management of patients at different stages in the life cycle and methods for individualizing care. Students will be challenged to read, think and problem solve regarding the dental hygiene diagnosis and treatment with degrees of periodontal disease as well as other oral diseases. Prerequisite: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisite: DHY 201, DHY 202, PSY 105.

DHY 205. Pain Control. 3 Credits.
This course provides the student with the fundamentals of pain management used in dentistry. A variety of topical and local anesthetic delivery devices will be discussed and utilized. Neuroanatomy, neurophysiology and pharmacology of local anesthetics, vasoconstrictors and topical anesthetics will be covered. A thorough patient assessment including stress reduction protocol is utilized. Techniques of local anesthesia administration, including infiltration, field, and nerve blocks will be demonstrated and return demonstrations will be performed until competency is achieved. This includes injections for maxillary, mandibular, palatal and supplemental pain control. The expanded role of the dental hygienist to include administration of oral anesthetics for pain control necessitates a thorough exposure to the theory and practice of administration within the scope of dental hygiene education. This course will prepare the student to take the “Permit L” which licenses the student to administer local anesthesia in Massachusetts. Critical thinking skills, whole body patient management, local and systemic complications including emergency response to patient medical emergencies will be an integral part of the course. This course will introduce the student to utilizing pain management options in dentistry and provide basic techniques in choosing and administering anesthetics agents for pain control. Prerequisites: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisite: DHY 201, DHY 202, PSY 105.

DHY 207. Dental Hygiene Process Of Care IV. 5 Credits.
This capstone course will be offered in a hybrid online format and is a continuation of Dental Hygiene Process of Care III. Students’ progress from a didactic learning environment to a seminar discussion focused on experience. A strong knowledge base has prepared the student for an experience that transitions the role of student into one of practitioner. The student has had a level of preparation to allow for independent thinking and judgment and this is encouraged. Dental hygiene students deliver comprehensive patient care in clinic by integrating preventive education and therapeutic oral health services. The lecture portion explores such topics as Case Studies on a variety of patients to assist in the licensing board exams. Innovative dental procedures/products and topics in dental specialty practices will also be covered. Students are expected to work independently on an 8-10 page research paper that serves as a culminating experience of the students’ program and college competencies. Written communication skills will be assessed as well as the student’s ability to use advanced search techniques. An oral presentation of the paper is required. Students will also prepare an extensive case study paper demonstrating proficiency in their clinical requirements on a patient receiving dental hygiene care during the semester as well as completion of competencies from the clinical portfolio. Process of Care IV, has been identified as the capstone course, in the Dental Hygiene curriculum. It is intended to be a culminating experience for soon to graduate students from Mount Wachusett Community College, reinforcing the College’s general education competency statements. Prerequisites: DHY 201, DHY 202, DHY 203, DHY 205. Corequisites: DHY 208, SOC 103.

DHY 208. Dental Ethics And Professional Issues. 2 Credits.
This course prepares the student for the philosophical consideration of dental hygiene practice. The student will be exposed to a variety of case studies which exemplify ethical, legal and professional concerns. The history of dental hygiene will also be discussed as well as current practice issues such as the public health dental hygienist, omnibus bills and dental practice ramifications. Additionally, the student is exposed to membership to their professional organization, the CEU process and the State Dental Practice
Act. This course also explores the ethical and legal obligations of the Dental Hygiene professional. Content will include the major ethical theories applied in healthcare, the ethical code of the Dental Hygiene profession, and the resolution of ethical dilemma. The student will become familiar with the legal regulation of their profession including practice acts, licensure, risk management, and quality assurance. A component of the course experience is devoted to preparing for Dental Hygiene employment and includes current professional issues, preparation of a resume and cover letter, participating in employment interviews, creating a “personal portfolio” and selecting a career position. The business of Dental Hygiene will be discussed. Career satisfaction, mobility, legal issues and liability/disability insurance will also be examined. Students will work independently and collaboratively in small groups or teams to achieve shared learning outcome goals. The development of teamwork skills will assist the students in future employment. Students will also learn how to evaluate their group productivity. Students will be navigated toward the independent process of their licensing examinations. Prerequisites: DHY 201, DHY 202, DHY 203, DHY 205. Corequisites: DHY 207, SOC 103.

**DHY 209. Community Oral Health. 4 Credits.**

This course provides the student with the components of dental public health, community dentistry and the theory needed to design and implement sound patient education. This course will be grounded in theories of behavioral sciences and human growth and development. Students are introduced to the concepts associated with preventive community health care along with the skills needed to function within the community as an advocate of oral health and preventive care. Topics include: patient motivation, goal setting, communication skills, developing instructional objectives and sensitivity towards multi-cultural concerns. Public health issues are discussed along with epidemiology, research in education and statistical analysis. This course will examine the role of the dental hygienist as a health educator and as an oral health promoter responsible for working with patients to help them improve or maintain their oral health and wellness and also to understand the relationship between both. Additionally, it is the goal of the course to assist the student in examining their own knowledge, attitudes, values, and behaviors regarding oral health and to assist them in becoming effective health promoters to the dental hygiene patient. Clinical experiences expand to include the community, such as schools, health care agencies, veterans shelters, outreach centers and clinics. A three-hour weekly practicum experience is included. Prerequisites: DHY 201, DHY 202, DHY 203. Corequisites: DHY 207, DHY 208, SOC 103.

**EARTH / ENVIRONMENTAL SCIENCE**

The Earth Systems / Environmental Science Associate's Degree at Mount Wachusett Community College prepares students for the rigors of a four-year institution to complete a baccalaureate degree. This program offers students the opportunity to explore geology, environmental science, ecology and meteorology while completing a core curriculum. Students will gain knowledge in a variety of disciplines including math, science, and technology.

**EARTH / ENVIRONMENTAL SCIENCE (EAES)**

The Earth Systems/Environmental Science Associate's Degree is designed for students to transfer to a four-year college or university to pursue a bachelor's degree in earth systems, geology, meteorology, or environmental science. With a bachelor's degree, students may pursue careers as a geologist, seismologist, environmental consultant, environmental safety consultant, meteorologist, soil scientist, atmospheric scientist, or earth science teacher. Embedded within the MWCC Associate's Degree is a Geospatial Technologies course (EAS 130), which provides the student with current technology skills crucial to this field of study.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>EAS 125</td>
<td>Physical Geology of the Earth</td>
</tr>
<tr>
<td>MAT 162</td>
<td>Introduction to Functions Modeling (Formerly MAT 134) (or higher)</td>
</tr>
<tr>
<td>CHE 107</td>
<td>General Chemistry I</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>MAT 163</td>
<td>Pre-Calculus (or higher)</td>
</tr>
<tr>
<td>Professional Elective (students planning on studying environmental science are encouraged to take EAS 110) (see list below)</td>
<td>3-4</td>
</tr>
<tr>
<td>CHE 108</td>
<td>General Chemistry II</td>
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| Year 2 | |
| **Fall** | |
| PHY 105 | College Physics I (or PHY 120) | 4 |
| EAS 130 | Fundamentals of Geospatial Technologies | 3 |
| Humanities Elective | 3 |

1. 156 | rev. 04/20
### Professional Elective (see list below) 4

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>PHL 235</td>
<td>The Philosophy of Nature, Science, and Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective ²</td>
<td></td>
<td>3</td>
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<tr>
<td>Professional Elective (see list below)</td>
<td></td>
<td>4</td>
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<tr>
<td>Professional Elective (see list below)</td>
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**Total Credits:** 60-61

1. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
2. Social Science Electives: See Elective Courses by Abbreviation (p. 357).

### Professional Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 109</td>
<td>Biology I</td>
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<tr>
<td>BIO 110</td>
<td>Biology II</td>
<td>4</td>
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<tr>
<td>BIO 116</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHE 207</td>
<td>Organic Chemistry I</td>
<td>4</td>
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<tr>
<td>CHE 208</td>
<td>Organic Chemistry II</td>
<td>4</td>
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<tr>
<td>EAS 110</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>EAS 120</td>
<td>Soil Science (formerly BIO 220)</td>
<td>4</td>
</tr>
<tr>
<td>EAS 126</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>MAT 211</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MAT 212</td>
<td>Calculus II</td>
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<tr>
<td>PHY 106</td>
<td>College Physics II</td>
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<tr>
<td>PHY 121</td>
<td>Physics for Engineering and Science II</td>
<td>4</td>
</tr>
</tbody>
</table>

See Earth / Environmental Science program student learning outcomes and technical standards

**Campus**

This program is offered at the Gardner campus only.

**Transfer Options**

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.
MASSTRANSFER
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for the MassTransfer information. (http://www.mass.edu/masstransfer/)

PROGRAM STUDENT LEARNING OUTCOMES FOR EAES
Upon graduation from this program, students shall have the ability to:

• Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines — math, science, technology — and gather, assess, and interpret information to reach well-reasoned conclusions and solutions.
• Successfully complete a substantial scientific research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
• Demonstrate knowledge of important ideas and events that have shaped, and continue to shape, their world.
• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
• Demonstrate the ability to collect, record and organize scientific data correctly.
• Demonstrate the ability to work safely in a laboratory environment.
• Demonstrate the ability to manipulate and use scientific tools, such as the microscope, pH meter, measurement tools, glassware and other scientific instrumentation. This would include independently conducting an experiment using written directions such as lab manuals or Standard Operating Procedures as a guide.
• Demonstrate the ability to use mathematical tools as applied to science. This could include building and interpreting graphs, using equations and formulas to solve problems, and fitting data to a mathematical model.
• Demonstrate the ability to search scientific literature and use the information.
• Successfully transfer to a baccalaureate degree-granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

TECHNICAL STANDARDS FOR EAES
Students entering this program must be able to demonstrate the ability to:

• Comprehend textbook material at a college level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Stand for a minimum of two hours.
• Differentiate by touch: hotness/coldness, wetness/dryness, and hardness/softness.
• Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
• Respond promptly to spoken words, as well as monitor signals and instrument alarms.
• Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
• Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
• Manipulate small parts, and make fine hand adjustments to machines and test equipment.
• Operate a computer.

EAS 110. Introduction to Environmental Science. 3 Credits.
This is an introductory course to the interdisciplinary field of environmental studies. Emphasis in this course will focus on the natural world and how it is influenced by human activities. Topics discussed will include: biodiversity, conservation, human populations, resources and sustainability, as well as global change. Prerequisite: ENG 098, MAT 092, RDG 098 or placement.

EAS 115. Paleontology: Evolution of Life. 4 Credits.
In this course, students will be introduced to basic biologic principles of ecology and natural selection that have influenced the evolution of modern species. Examination of fossil and geologic records will illustrate how climate changes and major evolutionary developments over the earth’s history have culminated in the domains and kingdoms of life. Students will also study what role humans
are playing in the evolution and extinction of species today. Lab work will complement topics discussed during lectures. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**EAS 120. Soil Science (formerly BIO 220). 4 Credits.**
Soils are the anchors of biological systems. This is a study of the physical, chemical, and biological nature of the soil. This four-credit laboratory course will study the substrate of the ecosystem. Emphasis will be placed on the role of the soil in plant pathology. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement. Spring.

**EAS 125. Physical Geology of the Earth. 4 Credits.**
This is an introductory course concerning the geology of both the earth's interior and surface. The geology of the earth's interior deals with its structure, the rock cycle, the formation and characteristic of igneous sedimentary and metamorphic rocks, as well as their mineral composition. The theory of plate tectonics will be used to discuss earthquakes, volcanoes, and mountain building. Surface geology encompasses soil and its formation, rivers, lakes, deserts, glaciers, topographic maps, and oceans. The process of physical and chemical weathering will be discussed in relation to these topics. Laboratory sessions will involve hands on experience with rocks, minerals, and measuring techniques used in geology, as well as online exercises. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

**EAS 126. Weather and Climate. 4 Credits.**
This is a 4-credit on-line laboratory science course. This course describes the basic structure of the atmosphere, and atmospheric processes. Students will develop an understanding of meteorological principles and concepts in order to understand the weather phenomena that affect our daily lives. Climate and the distinction between climate and weather will also be discussed. Prerequisite: ENG 098, MAT 092, RDG 098 or placement.

**EAS 127. Introduction to Astronomy. 3 Credits.**
This course is a general introduction to the field of astronomy. Students will study topics such as telescopes, the history of astronomy, tides and the moon, the planets of our solar system, properties of stars, our sun, solar formation and evolution, as well as galaxies. Students will be expected to make astronomical observations from their homes, as well as collect relevant data from the internet. Prerequisite: ENG 098, RDG 098, MAT 092 or placement.

**EAS 130. Fundamentals of Geospatial Technologies. 3 Credits.**
This course deals with the what and how of the various aspects of geospatial technologies. Topics to be covered include the theory and techniques of Geospatial Data and GPS, Geographic Information Systems, Remote Sensing, and Geospatial Applications. Students will gain hands-on experience with geospatial software such as Google Earth, ArcGIS, and others to establish a basic understanding and the skills needed to use these applications in the broad field of Natural Resources. Prerequisites: ENG 098, MAT 092, RDG 098 or placement. Fall.

**EDUCATION**
The Early Childhood Education Program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Early Childhood Education — Career or Associate Degree in Early Childhood Education — Transfer. There is an option to complete a track in Early Education and Care for Exceptional Children (EEC) within the Career Degree. The Elementary Education Track provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of a program, students are prepared for positions in early child care and educational settings. During the course of study, students will develop skills and competencies in early childhood philosophy and theory. Students will gain knowledge in the growth and development of young children, curriculum and program development, and environmental planning.

**EARLY CHILDHOOD EDUCATION—CAREER DEGREE (ECC)**
In addition to attending to children’s basic needs, early childhood education professionals organize activities that stimulate children’s physical, emotional, intellectual, and social growth. They help children explore interests, develop independence, foster creativity, build self-esteem, and learn how to behave with others. MWCC’s program will prepare students to begin a career working with children ages 0-5. Benefits of MWCC’s program include a great job placement rate (90 percent of students find jobs), the option of both day and evening classes, day classes scheduled conveniently for parents of school-age children, opportunities to gain real world experience, and many excellent, local practicum sites.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ECE 101</td>
<td>Introduction To Early Childhood Education</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Human Health And Disease</td>
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159
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECE 103</td>
<td>Home, School, And Community Relations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 108</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>MAT 140</td>
<td>Elements Of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 134</td>
<td>Guiding Children's Behavior</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 114</td>
<td>Early Childhood Education Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>PSY 244</td>
<td>Children With Special Needs</td>
<td>3</td>
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<tr>
<td>ECE 105 or 135</td>
<td>Child Care Administration (or Health, Safety &amp; Nutrition in Early Childhood Settings)</td>
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<tr>
<td>ECE 102</td>
<td>Early Childhood Curriculum And Program Planning I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 104</td>
<td>Infant And Toddler Development And Curriculum</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 124</td>
<td>Early Childhood Education Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>ECE 250</td>
<td>Observation and Assessment in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235 or THE 112</td>
<td>Children's Literature(or Children's Theater)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 206</td>
<td>Marriage And The Family</td>
<td>3</td>
</tr>
<tr>
<td>ECE 132</td>
<td>Applying Theories Of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td></td>
<td><strong>62</strong></td>
</tr>
</tbody>
</table>

1 Students enrolled in ECC or ECT must earn a grade of C or better.

See Education program student learning outcomes and technical standards

**State Certification**
After completing the degree, students can apply for Department of Early Education and Care (EEC) Lead Teacher certification. Lead Teachers must be age 21 or over (those under 21 can receive Teacher certification). EEC certification indicates that students are qualified to work in childcare facilities.

**Student Success Tips**
To meet Department of Early Education and Care (EEC) requirements, students should attain First Aid certification. Childcare facilities are required to have one CPR-certified professional always present; therefore, students who attain certification will be even more marketable.

**Transfer Options**
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**Special Requirements**
Technical standards must be met with or without accommodations.

**Career Options/Earning Potential**
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=early+childhood+education)
EARLY CHILDHOOD EDUCATION—TRANSFER DEGREE (ECT)

This program satisfies the requirements of the Massachusetts Department of Higher Education Early Childhood Education Transfer Compact for transfer to a state college or university bachelor’s degree program (nursery school to grade 2). Preschool, kindergarten, and elementary school teachers play a vital role in the development of children, introducing them to numbers, language, science, and social studies. They facilitate student learning through interactive class discussions, educational activities, “hands-on” learning, and one-on-one assistance. The need for qualified teachers continues to grow because of retirements, increasing student enrollments, and demands for smaller class sizes. Benefits of MWCC’s program include: day, evening, and distance learning options; day classes scheduled conveniently for parents of school-age children; opportunities to gain real world experience; and a strong liberal arts and sciences curriculum for more effective transfer.

Year 1

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE 101</td>
<td>Introduction To Early Childhood Education</td>
</tr>
<tr>
<td></td>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td></td>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td></td>
<td>BIO 109, EAS 115, or EAS 125</td>
<td>Biology I (or Paleontology: Evolution of Life or Physical Geology of the Earth)</td>
</tr>
<tr>
<td></td>
<td>MAT 140</td>
<td>Elements Of Mathematics I</td>
</tr>
<tr>
<td></td>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td></td>
<td>PSY 108</td>
<td>Child Development</td>
</tr>
<tr>
<td></td>
<td>ECE 103</td>
<td>Home, School, And Community Relations</td>
</tr>
<tr>
<td></td>
<td>MAT 143</td>
<td>Statistics</td>
</tr>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECE 102</td>
<td>Early Childhood Curriculum And Program Planning</td>
</tr>
<tr>
<td></td>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
</tr>
<tr>
<td></td>
<td>ECE 114</td>
<td>Early Childhood Education Practicum I</td>
</tr>
<tr>
<td></td>
<td>ART 109, 110, MUS 103, or HUM 260</td>
<td>Art History I (or Art History II or Music Skills and Theory I or The Art of Being Human)</td>
</tr>
<tr>
<td></td>
<td>HIS 201</td>
<td>History of United States I</td>
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</table>

| Spring | ENG 235 | Children’s Literature |
|        | Science Elective | |
|        | ECE 124 | Early Childhood Education Practicum II |
|        | HIS 105 or 106 | History Of World Civilization I (or History of World Civilization II) |
|        | PSY 244 | Children With Special Needs |

| Total Credits: | 60-61 |

1. Students enrolled in ECC or ECT must earn a grade of C or better.
2. HUM 260 The Art Of Being Human I recommended for transfer to Fitchburg State University.

See Education program student learning outcomes and technical standards.

Transfer Options

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

MassTransfer

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Special Requirements

Satisfactory completion of the Communication and Literacy (CLST) section of the Massachusetts Tests of Educator Licensure (MTEL) is required for transfer into a four-year educational program prior to entrance to junior-level courses. The exam is not a prerequisite to enter MWCC’s program. Technical standards must be met with or without accommodations.
ELEMENTARY EDUCATION TRACK (LAEL)

A DEGREE IN LIBERAL ARTS AND SCIENCE

This program satisfies the requirements of the Massachusetts Department of Higher Education Elementary Education Transfer Compact for transfer to a state college or university bachelor's degree program. Elementary school teachers play a vital role in the development of children, introducing them to numbers, language, science, and social studies. They facilitate student learning through interactive class discussions, educational activities, "hands-on" learning, and one-on-one assistance. The need for qualified teachers continues to grow because of retirements, increasing student enrollments, and demands for smaller class sizes.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIS 105 or 106 HISTORY OF WORLD CIVILIZATION I (OR HISTORY OF WORLD CIVILIZATION II)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 COLLEGE WRITING I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 105 INTRODUCTION TO PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>BIO 109 BIOLOGY I</td>
<td>4</td>
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<td>EDU 101 INTRODUCTION TO EDUCATION</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102 COLLEGE WRITING II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 140 ELEMENTS OF MATHEMATICS I</td>
<td>3</td>
</tr>
<tr>
<td>EDU 102 LITERACY IN EDUCATION</td>
<td>3</td>
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<tr>
<td>SCIENCE ELECTIVE</td>
<td>3-4</td>
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<tr>
<td>GENERAL ELECTIVE</td>
<td>3</td>
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</tbody>
</table>

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 235 CHILDREN'S LITERATURE</td>
<td>3</td>
</tr>
<tr>
<td>HIS 201 or 202 HISTORY OF UNITED STATES I (OR HISTORY OF UNITED STATES II)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 108 CHILD DEVELOPMENT</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113 SPEECH (FORMERLY THE113)</td>
<td>3</td>
</tr>
<tr>
<td>PROFESSIONAL ELECTIVE (SEE LIST BELOW)</td>
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</table>

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAT 143 STATISTICS (OR HIGHER)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 290 ADVANCED WRITING AND RESEARCH</td>
<td>3</td>
</tr>
<tr>
<td>ART 109, 110, MUS 103, OR HUM 260 ART HISTORY I (OR ART HISTORY II OR MUSIC SKILLS AND THEORY I OR THE ART OF BEING HUMAN I)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 244 CHILDREN WITH SPECIAL NEEDS</td>
<td>3</td>
</tr>
<tr>
<td>GENERAL ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits:** 61-62

1. Lab Science Electives and Science Electives: See Elective Courses by Abbreviation (p. 357).
2. General Electives: See Elective Courses by Abbreviation (p. 357).
3. Select courses to fulfill requirements for the intended academic major at the four-year college to which you plan to transfer.
4. HUM 260 The Art Of Being Human I is recommended for transfer to Fitchburg State University.

**Professional Electives**

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECE 105 CHILD CARE ADMINISTRATION</td>
</tr>
<tr>
<td>ECE 134 GUIDING CHILDREN'S BEHAVIOR</td>
</tr>
<tr>
<td>SOC 206 MARRIAGE AND THE FAMILY</td>
</tr>
</tbody>
</table>

See Education program student learning outcomes and technical standards.

**Student Success Tips**

Students should consult with a transfer advisor early to ensure that they choose a combination of liberal arts and education courses that transfer to the four-year college or university of their choice.
Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

MassTransfer
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Special Requirements
Most four-year colleges and universities (including all Massachusetts public institutions) require satisfactory completion of the Communication and Literacy section of the Massachusetts Tests of Educator Licensure (MTEL) prior to entrance to junior-level courses. The exam is NOT a prerequisite to enter MWCC’s program. Students may be able to transfer into bachelor's degree education programs, but may not be able to take upper-level education courses until they pass the exam. Technical standards must be met with or without accommodations.

Early Education and Care for Exceptional Children (EEC)
The Early Care & Education for Young Children with Exceptionalities is a track available for Early Childhood Career Associate Degree students. A growing body of research is showing that just under half (45%) of children 0-17 have experienced adverse childhood experiences (ACES). These ACES are potentially traumatic events that can have lasting impacts on health and well-being. Responding to children who have experienced or who are at risk of experiencing ACES is a challenge facing the Early Education and Care field. This track provides training in the areas of challenging behaviors, trauma-informed care, human services, and helping children develop resilience, and prepares students to work in home-based support staff positions for young children with special needs and their families.

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Psychology Of Self</td>
<td>3</td>
</tr>
<tr>
<td>ECE 101</td>
<td>Introduction To Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 103</td>
<td>Home, School, And Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Human Health And Disease</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 108</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>MAT 140</td>
<td>Elements Of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 134</td>
<td>Guiding Children's Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>Year 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 244</td>
<td>Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ECE 102</td>
<td>Early Childhood Curriculum And Program Planning</td>
<td>3</td>
</tr>
<tr>
<td>ECE 104</td>
<td>Infant And Toddler Development And Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ECE 114</td>
<td>Early Childhood Education Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 107</td>
<td>Building Resilience in Children, Youth and Families</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 250</td>
<td>Observation and Assessment in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>HST 101</td>
<td>Introduction To Human Services</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235 or THE 112</td>
<td>Children’s Literature (or Children’s Theater)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 124</td>
<td>Early Childhood Education Practicum II</td>
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</tr>
<tr>
<td>ECE 106</td>
<td>Autism Spectrum Disorder</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 62

See Education program student learning outcomes and technical standards
State Certification

After completing the degree, students can apply for Department of Early Education and Care (EEC) Lead Teacher certification. Lead Teachers must be age 21 or over (those under 21 can receive Teacher certification). EEC certification indicates that students are qualified to work in childcare facilities.

Student Success Tips

To meet Department of Early Education and Care (EEC) requirements, students should attain First Aid certification. Childcare facilities are required to have one CPR-certified professional always present; therefore, students who attain certification will be even more marketable.

Transfer Options

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements

Technical standards must be met with or without accommodations.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=early+childhood+education&SearchType=occupation)

EARLY CHILDHOOD EDUCATION CERTIFICATE (ECE)

This Early Childhood Certificate program prepares students, including those who are working in the field and want to continue their education, for professional work with children from birth to age 5. The program includes a series of courses designed to develop competencies in the areas of child development, curriculum planning, health and safety, and working with children with special needs. Direct work with and observation of children are an essential part of this certificate program. The certificate is designed to qualify students to meet the Massachusetts Department of Early Education and Care requirements for teachers in group settings. Certification may be in an infant/toddler or preschool setting based on the completion of a practicum in that setting.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 101 Introduction To Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 102 Early Childhood Curriculum And Program Planning</td>
<td>3</td>
</tr>
<tr>
<td>ECE 104 Infant And Toddler Development And Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>PSY 108 Child Development</td>
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<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 134 Guiding Children's Behavior</td>
<td>3</td>
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<tr>
<td>ECE 135 Health, Safety Nutrition in Early Childhood Settings</td>
<td>3</td>
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<tr>
<td>PSY 244 Children With Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ECE 114 Early Childhood Education Practicum I (Preschool or Infant/Toddler placements for specific certification)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits: 25

Student Success Tips

To meet Department of Early Education and Care (EEC) requirements, students should attain First Aid certification. Childcare facilities are required to have one CPR-certified professional always present; therefore, students who attain certification will be even more marketable.

Transfer Options

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements

Technical standards must be met with or without accommodations.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=early+childhood+education&SearchType=occupation)
PROGRAM STUDENT LEARNING OUTCOMES FOR ECC, EEC, AND ECT

Upon graduation from these programs, students shall have demonstrated the ability to:

• Create an environment that is healthy, respectful, supportive, and challenging for each child.
• Design, implement, and evaluate experiences that promote positive development and learning for every young child.
• Implement developmentally appropriate activity plans that are based on children’s ages, characteristics, and culture.
• Explain and analyze the importance of creating respectful, reciprocal relationships that support and involve families in their children’s development and learning.
• Collect child observations based on developmental domains.
• Practice documentation strategies that positively influence the development of children.
• Defend the early childhood profession, upholding ethical guidelines and professional standards related to early childhood practice.

PROGRAM STUDENT LEARNING OUTCOMES FOR LAEL

Upon graduation from these programs, students shall have demonstrated the ability to:

• Implement curriculum based on State Frameworks and national standards.
• Question complex problems and ideas relevant to a variety of disciplines and theories, locally, nationally and globally.
• Create an educational environment that is respectful, supportive and challenging.
• Defend the teaching profession, upholding ethical guidelines and professional standard.
• Apply reflective practice to integrate knowledge from a variety of sources.
• Engage in informed advocacy for students and the teaching profession.
CAPSTONE COURSE FOR LAEL

ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

TECHNICAL STANDARDS ¹ FOR ECC, EEC, AND ECT

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Lift a child up to 50 pounds to safety or for assistance.
- Stand for extended periods of time up to one hour, stoop, bend and get up and down from a floor sitting position.
- Use small muscle dexterity necessary to do such tasks as preparing meals and diapering.
- Work as part of a team, as in team teaching or parent meetings.
- Exhibit social skills appropriate to professional interactions and in accordance with early childhood standards.
- Communicate clearly with children and respond immediately and appropriately.
- Identify at-risk behavior that might endanger the safety of a child, peers and/or staff during instructional, social or recreational activities.
- Identify situations when a child is in distress or exhibiting behaviors that endanger their safety by reacting in an appropriate and timely manner.
- Remain calm, rational, decisive, and in control at all times, especially during emergency and alarm situations.
- Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

TECHNICAL STANDARDS ¹ FOR LAEL

¹ Comprehend textbook material at the 11th grade level
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for extended periods of time for up to one hour, stoop, bend and get up and down from a floor sitting position.
- Work as part of a team, as in teaching or parent meetings.
- Exhibit social skills appropriate to professional interactions and in accordance with education standards.
- Communicate clearly with children and respond immediately and appropriately.
- Identify at-risk behavior that might endanger the safety of a student and/or staff during instructional, social, or recreational activities.
- Remain calm, rational, decisive, and in control at all times, especially during emergency and alarm situations.
- Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

ECE 101. Introduction To Early Childhood Education. 3 Credits.
This course is an introduction to the field of early childhood. It studies the foundations, history, philosophy, ethics, the role of the teacher, and the changing needs of children in a variety of settings. This course will address licensing regulations, state and national standards and how they impact the social, emotional, and intellectual growth of the child. Emphasis will be placed on the Department of Early Care and Education (EEC) and the National Association for the Education of Young Children (NAEYC). A field observation is required. Students must undergo a Background Records Check. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ECE 102. Early Childhood Curriculum And Program Planning. 3 Credits.
This course surveys curriculum, instruction and the environment in an early childhood setting in order to maintain a comprehensive, multisensory, developmentally appropriate program. Students will gain an understanding of the importance of play, active exploration,
diversity and inclusion. Emphasis will be placed on supporting the learning of children in all domains. The department of Early Care and Education (EEC) regulations and the National Association for the Education of Young Children (NAEYC) standards will all be highlighted. A field observation and a Background Records check are required. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite).

ECE 103. Home, School, And Community Relations. 3 Credits.
This course examines the role of teachers and families in the development, care and education of young children. Special emphasis will be placed on understanding and engaging families with differing and/or challenging circumstances, and developing communication skills and strategies. Students will develop strategies to engage community resources and advocate for children, families and early childhood education. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 (or corequisite). Spring.

ECE 104. Infant And Toddler Development And Curriculum. 3 Credits.
The focus of this course is on the unique requirements of caring for infants and toddlers in group settings. Students will explore child growth and development, environments, curriculum and care-giving for children ages birth-3. Students will demonstrate knowledge of the Massachusetts Early Learning Guidelines for Infants and Toddlers. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 (or corequisite). Fall.

ECE 105. Child Care Administration. 3 Credits.
This course examines the organization, planning, and the administering of various types of early childhood programs. Emphasis will be placed on the responsibility of the director to provide a quality program through thoughtful planning, sound fiscal management skills, interpersonal relationships, while meeting State Standards and Guidelines and State licensing regulations. Topics included in the course will be funding, budgeting, evaluating, hiring, collecting fees, writing reports, and communication skills. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 (or corequisite). Fall.

ECE 106. Autism Spectrum Disorder. 3 Credits.
This course will examine the neurological underpinnings and behavioral characteristics of children with autism spectrum disorders. It will focus on an overview of child-centered, developmental and evidence-based interventions used in early care and education environments. Collaborating with families will be emphasized. Students will complete a field observation with a child experience autism spectrum disorder. Prerequisites: ENG 098, FYE 101, RDG 098. Spring.

ECE 107. Building Resilience in Children, Youth and Families. 3 Credits.
This course explores resilience, the ability to adapt well and recover after stress, adversity, trauma or tragedy. Emphasis will be on understanding trauma and resilience as well as exploring evidence-based strategies and skills to implement trauma-sensitive curriculum and behavioral practices. The focus will also be placed on using trauma-informed approaches to foster student, professional, and family relationships. Prerequisites: ENG 098, FYE 101, RDG 098. Spring.

ECE 114. Early Childhood Education Practicum I. 4 Credits.
Students will actively participate in an early childhood education setting. Under the supervision of a mentor teacher, the student will become more familiar with the role and responsibilities of the professional in early childhood education environments. Students must undergo a Background Records Check. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 102 or corequisite; PSY 108; enrollment in ECC or ECT programs.

ECE 124. Early Childhood Education Practicum II. 4 Credits.
Students will increase their involvement in an early childhood setting under the guidance of a mentor teacher. They will plan and implement developmentally appropriate curriculum while learning to apply best practice. Students will develop confidence and a sense of professionalism while reflecting on their teaching practice. Students must undergo a Background Records check. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 114; enrollment in ECC or ECT programs.

ECE 132. Applying Theories Of Curriculum. 3 Credits.
This course will explore and analyze current trends, theories, best practice standards of curriculum in early childhood education. Students will gain a more indepth understanding of inquiry-based, emergent and project-based teaching that reviews the value of play and the importance of inclusion and diversity. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 102, PSY 108.

ECE 134. Guiding Children's Behavior. 3 Credits.
This course helps students examine and interpret young children's behavior. Various theories of behavior management and functions of behavior, the role of positive behavioral supports in preparing young children to become competent and cooperative individuals with a strong social and emotional foundation will be emphasized. Developmentally appropriate methods of guiding individual and group needs will be shared as approaches to preventing disruptive behaviors in the classroom. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite). Spring.
ECE 135. Health, Safety & Nutrition in Early Childhood Settings. 3 Credits.
Students will examine a holistic approach to children's wellness and the inter-relationships between health, safety and nutrition in early childhood settings. This course will explore the knowledge and skills early childhood educators need in order to promote the well-being of young children birth-8. Emphasis will be on the Department of Early Education and Care regulations. ECC and ECT students must earn a C or better in the course. Prerequisite: ECE 101. Alternate Years.

ECE 244. Children with Special Needs. 3 Credits.
This course explores ways of understanding the strengths and needs of children with differing abilities. Emphasis will be on combining information about specific disability categories with evidence-based practices for instruction and behavioral support. This course covers evolving social/cultural dimensions of disability as well as legislation and policies supportive of children with special needs and their families. Students are required to observe special needs children in an educational setting. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 or PSY 110.

ECE 250. Observation and Assessment in Early Childhood. 3 Credits.
This course examines observation and assessment of children from birth through eight. The connection between effective observation and documentation to inform curriculum planning, program development and constructively sharing information will be emphasized. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108.

ENGINEERING AND PHYSICS

The Engineering and Physics degree at Mount Wachusett Community College provides students with the opportunity to earn an Associate’s in Science Degree in Engineering/Physics. Upon completion of the program, students are prepared for the rigors of a four-year institution to complete a baccalaureate degree. The Engineering and Physics degree offers a student the opportunity to complete a core transfer curriculum including calculus and calculus-based physics, while exploring various engineering disciplines through project-based learning.

ENGINEERING AND PHYSICS (EPHY)

An Associate's in Science Degree in Engineering/Physics

This program is designed to prepare graduates for transfer in physics and engineering. Since many of these classes are two-semester sequential courses, it is recommended that students start this program in the fall.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>CHE 107</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MAT 211</td>
<td>Calculus I</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>CAD 101</td>
<td>Introduction to CAD</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>CHE 108</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>MAT 212</td>
<td>Calculus II</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Year 2 | |
| **Fall** | |
| PHY 120 | Physics for Engineering and Science I | 4 |
| Science Elective | 3-4 |
| Advance MAT Elective | 4 |
| Social Science Elective | 3 |
| **Spring** | |
| PHY 121 | Physics for Engineering and Science II | 4 |
| MAT or Science Elective | 4 |
| PHL Elective | 3 |
| MAT 213 | Calculus III | 4 |

Total Credits: 60-61

1 Social Science Elective: See Elective Courses by Abbreviation (p. 357). ECO 101 Macroeconomics or ECO 102 Microeconomics is recommended.
Humanities Electives: See Elective Courses by Abbreviation. (p. 357)

Any 3-credit or 4-credit science course except PHY 105 and PHY 106. See Elective Courses by Abbreviation. (p. 357)

Any 200-level MAT course.

Any 3-credit or 4-credit 200-level MAT or science course. See Elective Courses by Abbreviation. (p. 357)

Any PHL course.

See Engineering and Physics program student learning outcomes and technical standards

**Campus**

This program is offered on the Gardner campus only.

**Student Success Tips**

This program is designed for a fall start with attendance taking place primarily in Gardner during the daytime. Students are encouraged to follow the sequence of courses as presented in the catalog.

**Transfer Options**

Please click here for transfer options (p. 62) and also consult with your advisor.

**MASSTRAINER**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer (http://www.mass.edu/masstransfer/) agreement, which provides transfer advantages to those who qualify.

**Special Requirements**

Technical standards must be met with or without accommodations.

**PROGRAM STUDENT LEARNING OUTCOMES FOR EPHY**

Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines — math, science, the humanities, and the social sciences — and gather, assess, and interpret information to reach well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial scientific research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
- Demonstrate knowledge of important ideas and events that have shaped, and continue to shape, their world.
- Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
- Demonstrate the ability to collect, record and organize scientific data correctly.
- Demonstrate the ability to work safely in a laboratory environment.
- Demonstrate the ability to manipulate and use scientific tools, such as the microscope, pH meter, measurement tools, glassware and other scientific instrumentation. This would include independently conducting an experiment using written directions such as lab manuals or Standard Operating Procedures as a guide.
- Demonstrate the ability to use mathematical tools as applied to science. This could include building and interpreting graphs, using equations and formulas to solve problems, and fitting data to a mathematical model.
- Demonstrate the ability to search scientific literature and use the information.
- Successfully transfer to a baccalaureate degree-granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

**TECHNICAL STANDARDS FOR EPHY**

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:
• Comprehend textbook material at a college level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Stand for a minimum of two hours.
• Differentiate by touch: hotness/coldness, wetness/dryness, and hardness/softness.
• Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
• Respond promptly to spoken words, as well as monitor signals and instrument alarms.
• Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
• Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
• Manipulate small parts, and make fine hand adjustments to machines and test equipment.
• Operate a computer.

PHY 101. Introduction To Physical Science. 4 Credits.
This course will provide the non-science major with a basic background in physics and chemistry that affects everyone’s life. Fundamental concepts of force, motion, energy, and chemistry are covered. Laboratory work complements the classroom presentation. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

PHY 105. College Physics I. 4 Credits.
This course is designed to give students an appreciation of the progress that has been made in understanding the basic nature of the universe. Topics considered include vectors, statics, force and motion, kinematics in one and two dimensions, dynamics, work and energy, impulse and momentum, and conservation of energy. Lab work is correlated with class discussions. Prerequisites: ENG 098, FYE 101, MAT 162 (or corequisite), RDG 098, or placement.

PHY 106. College Physics II. 4 Credits.
This course is a continuation of PHY 105. Topics to be covered include rotation, elasticity, fluid mechanics, temperature and heat transfer, electricity and electric circuits, waves and acoustic phenomena. Lab work is correlated with class discussions. Prerequisite: PHY 105. Spring.

PHY 120. Physics for Engineering and Science I. 4 Credits.
A calculus based course in the concepts and principles of mechanics, and fluids. This course is intended to serve students who plan to major in science or engineering at the four year college level. Laboratory work is correlated to the class presentation. Prerequisite: ENG 101, MAT 211 (or co-requisites).

PHY 121. Physics for Engineering and Science II. 4 Credits.
This course is designed to provide the student with a clear and logical presentation of the basic concepts and principles of physics, to strengthen an understanding of the concepts and principles through a broad range of interesting real-world applications, and to develop strong problem solving skills through an effectively organized approach. Topics considered include the principles of simple harmonic motion, wave motion, sound, geometric optics, wave nature of light, charge, coulomb force, electric field and flux, gauss' law, electric potential, voltage, resistance, current, DC circuits, Kirchoff’s Laws, capacitance, RC time constant, magnetic field and flux, Faraday's Law, Lens' Law, Ampere's Law, Electromagnetic induction, electromagnetic waves, and Maxwell's equations. This course is intended to serve students who plan to major in science or engineering at the four-year college level. Laboratory work is correlated to the classroom presentations. Prerequisite: MAT 212 (or corequisite), PHY 120. Spring.

EXERCISE AND SPORTS SCIENCE
The Exercise and Sports Science Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The Exercise and Sports Science Track offers a student the opportunity to explore fitness and wellness, while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

EXERCISE AND SPORTS SCIENCE TRACK (LAX)
A Degree in Liberal Arts and Sciences
This program is for those students who would like to transfer to a four-year college or university to pursue a bachelor’s degree in exercise and sports science, exercise physiology, fitness management, or other health-related fields. With a bachelor’s degree, students may pursue fitness management careers at private and corporate fitness centers. Upon graduation from MWCC, students
may pursue immediate employment at wellness or recreational agencies. In this program, students will learn in a state-of-the-art fitness and wellness center and gain in-depth knowledge of exercise science to increase their skills and make them more marketable to prospective employers.

**Year 1**

**Fall**
- ENG 101 College Writing I 3
- MAT 163 Pre-Calculus (or higher) 4
- BIO 113 Life Science for Allied Health (formerly BIO 099) 3
- PSY 105 Introduction To Psychology 3
- PER 130 Health, Fitness, And Wellness 3

**Spring**
- ENG 102 College Writing II 3
- SPC 113 Speech (formerly THE113) 3
- History Elective (see list below) 3
- BIO 203 Anatomy and Physiology I (formerly BIO 199) 4

**Year 2**

**Fall**
- Art Elective (see list below) 3
- EXS 201 Exercise Science And Nutrition 4
- CIS 127 Computer Technologies 3
- EXS 102 or PTA 104 Principles Of Anatomy And Kinesiology (or Applied Anatomy and Kinesiology) 3-4
- Literature Elective (see list below) 3

**Spring**
- BIO 204 Anatomy and Physiology II 4
- EXS 203 Exercise Testing And Program Design 4
- Culturally Diverse History Elective (see list below) 3
- ECO 102 Microeconomics 3
- ENG 290 Advanced Writing and Research 3

**Total Credits:** 62-63

**Literature Electives**

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 213 American Literature I 3</td>
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<tr>
<td>ENG 214 American Literature II 3</td>
</tr>
<tr>
<td>ENG 224 Mystery Fiction 3</td>
</tr>
<tr>
<td>ENG 261 The Short Story 3</td>
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**History Electives**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 105 History Of World Civilization I 3</td>
</tr>
<tr>
<td>HIS 106 History Of World Civilization II 3</td>
</tr>
<tr>
<td>HIS 201 History of United States I 3</td>
</tr>
<tr>
<td>HIS 202 History of United States II 3</td>
</tr>
</tbody>
</table>
Art Electives

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Introduction To Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Introduction To Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

Culturally Diverse History Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>American Ethnic History</td>
<td>3</td>
</tr>
</tbody>
</table>

See Exercise and Sports Science program student learning outcomes and technical standards.

Student Success Tips

Focusing on a particular area of study in biological sciences and exercise skills may be helpful when pursuing a career. Students should have a commitment to their own physical fitness. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements

Technical standards must be met with or without accommodations.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=fitness+leadership+and+exercise&SearchType=occupation)
PROGRAM STUDENT LEARNING OUTCOMES FOR LAX

Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
- Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
- Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
- Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.
- Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

ADDITIONAL PROGRAM COMPETENCIES FOR LAX

In addition to the above program student learning outcomes, upon graduation from the Exercise and Sports Science Track, students shall have the ability to:

- Demonstrate a basic knowledge of exercise physiology and kinesiology.
- Demonstrate a basic knowledge of nutrition and the guidelines.
- Demonstrate the ability to do a thorough client assessment for designing a complete exercise program.
- Demonstrate an understanding of the professional responsibilities surrounding safety, liability, and code of ethics.
- Demonstrate an understanding of the fitness leadership certifications and the need for continuing education.

TECHNICAL STANDARDS ¹ FOR LAX

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering into this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information in either spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Exhibit social skills appropriate to professional interactions.
- Maintain cleanliness and personal grooming consistent with close personal contact.

EXS 102. Principles Of Anatomy And Kinesiology. 3 Credits.

This course is intended to provide the student with a detailed overview of musculoskeletal structure and function and its application to a more complex analysis of human movement and skill. Introduction of concepts concerning tissue and organ system organization, basic biomechanics, and the nervous system and its relationship to the musculoskeletal systems will be studied. Identification and detailed palpation of the bones and muscles of the human skeleton will be correlated with joint and muscle function. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

EXS 103. Strength and Conditioning. 3 Credits.

Through participation in lecture and lab, students will develop the skills and understanding of muscle physiology and its relationship to resistance training. The course will provide students with an understanding of required adaptations for proper training, correct form and technique. Prerequisites or Corequisites: BIO 203 or EXS 102 or PTA 104. Spring.
EXS 201. Exercise Science And Nutrition. 4 Credits.
This course will explore the scientific dimensions of fitness and nutrition. The course will be aimed at the function of exercise on the skeletal muscles, the organs, and the systems of the body; the relationship of activity and fitness to health; as well as an overview of nutrition, energy balance, and weight control as it affects health. Prerequisites: BIO 152 or BIO 199 (or co-requisite). Fall.

EXS 203. Exercise Testing And Program Design. 4 Credits.
This course introduces students to testing protocols for individuals and groups. Students will be instructed in various fitness programs for flexibility, strength, and cardiovascular exercises. Students will also learn weight management techniques, as well as safety aspects of fitness exercises. The principles of adherence and motivation as well as communication and teaching techniques will be discussed and evaluated. Students will develop an understanding of legal issues and business structures, as well as professional responsibility. Prerequisites: EXS 102 or PTA 104, EXS 201. Spring.

EXS 210. Externship. 2 Credits.
This externship experience involves direct observation and interaction at selected facilities. Placements include fitness centers, wellness centers, physical therapy clinics and rehabilitation centers. Students obtain a basic knowledge and understanding of the practical aspects of the fitness industry through participation. One seminar hour and several hours of field experience per week are required. Prerequisites: EXS 102 and EXS 201. Spring.

FIRE SCIENCE TECHNOLOGY

The Fire Science Technology program at Mount Wachusett Community College provides the students with an opportunity to earn an Associate Degree in Fire Science Technology. Upon completion of this program, students have the opportunity to be academically prepared in fire and emergency services. During the course of study, students will develop skills and competencies in fire prevention and suppression, as well as the principles of arson investigation.

FIRE SCIENCE TECHNOLOGY DEGREE (FS)

The Fire Science Technology Degree program meets the needs of firefighters by providing relevant coursework in building construction, fire prevention, fire investigation, and more. The Fire Science program accepts certain courses in transfer from the Massachusetts Fire Academy. This program is for those working in the field, as well as those interested in pursuing it. MWCC has adopted the Fire and Emergency Services Higher Education (FESHE) Model curriculum. These courses form a national curriculum with recognition from the National Fire Academy.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>FST 153 Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FST 159 Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FST 155 Principles Emergency Services</td>
<td>3</td>
</tr>
<tr>
<td>MAT 126 Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
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<tr>
<td>FST 158 Principles of Firefighter Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>FST 157 Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>FST 151 Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>FST 154 Hazardous Materials Chemistry</td>
<td>3</td>
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<tr>
<td>FST 152 Strategy and Tactics</td>
<td>3</td>
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</table>

<table>
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<tr>
<th>Year 2</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
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<tr>
<td>FST 162 Fire Hydraulics and Water Supply</td>
<td>3</td>
</tr>
<tr>
<td>FST 161 Legal Aspects of Emergency Services</td>
<td>3</td>
</tr>
<tr>
<td>FST 160 Fire and Emergency Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HCC 111 Emergency Medical Technician I (Evening Only)</td>
<td>4</td>
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<tr>
<td>HCC 112 Emergency Medical Technician II (Evening Only)</td>
<td>4</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>Humanities Elective 1</td>
<td>3</td>
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<tr>
<td>Social Science Elective 2</td>
<td>3</td>
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<tr>
<td>FST 163 Fire Investigation I</td>
<td>3</td>
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</table>

MWCC has adopted the Fire and Emergency Services Higher Education (FESHE) Model curriculum. These courses form a national curriculum with recognition from the National Fire Academy.
Liberal Arts and Sciences Elective

<table>
<thead>
<tr>
<th>Credits</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>3-4</td>
<td>Humanities Electives: See Elective Courses by Abbreviation. (p. 357)</td>
</tr>
<tr>
<td></td>
<td>Social Science Electives: See Elective Courses by Abbreviation (p. 357).</td>
</tr>
<tr>
<td></td>
<td>Liberal Arts and Sciences Elective options: EAS 126, BIO 101, BIO 103, EAS 110, PSY or SOC.</td>
</tr>
</tbody>
</table>

Total Credits: 62-63

See Fire Science Technology program student learning outcomes and technical standards

Campus
Fire Science classes are offered online only.

Student Success Tips
Many fire departments require the civil service exam. Also, students should consider completing EMT certification, since fire departments respond to non-fire emergencies.

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements
Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=fire+science&amp;SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR FS

Upon graduation from this program, students shall have demonstrated the ability to:

- Demonstrate knowledge of the principles of fire prevention.
- Use theory and practice relative to fire hydraulics in relation to fire suppression.
- Articulate fundamental codes and ordinances specific to building construction.
- Demonstrate fundamental knowledge of the principles of arson investigation.
- Use principles of hazardous chemicals in containment of toxic spills.
- Use equipment typical of a traditional fire company.
- Exhibit the use of principles specific to managing a fire or some other type of incident.

TECHNICAL STANDARDS FOR FS

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for long periods of time.
- Lift a minimum of 100 pounds.
- Traverse small spaces.
- Climb to extended heights.
- Manipulate gauges and valves associated with fire control.

FST 151. Building Construction. 3 Credits.
This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Prerequisite: FST 155 or permission of division dean.
FST 152. Strategy and Tactics. 3 Credits.
This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Prerequisite: FST 159.

FST 153. Fire Protection Systems. 3 Credits.
This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 154. Hazardous Materials Chemistry. 3 Credits.
This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 155. Principles Emergency Services. 3 Credits.
This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 157. Fire Prevention. 3 Credits.
This course provides fundamental knowledge relating to the field of fire prevention. Topics include history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 158. Principles of Firefighter Safety and Survival. 3 Credits.
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 159. Fire Behavior and Combustion. 3 Credits.
This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 160. Fire and Emergency Services Administration. 3 Credits.
This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. Prerequisite: FST 155.

FST 161. Legal Aspects of Emergency Services. 3 Credits.
The course will address the Federal, State, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 162. Fire Hydraulics and Water Supply. 3 Credits.
This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Prerequisites: FST 155, MAT 092, or placement.

FST 163. Fire Investigation I. 3 Credits.
This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. Prerequisites: FST 151, FST 155, FST 159, or permission of division dean.

GLOBAL STUDIES
This Liberal Arts and Sciences concentration invites students to investigate global histories, cultural practices, art, literature and worldviews. Global challenges and topics such as population, globalization, social justice, and environmental concerns will also be explored in detail. The curriculum spans the academic disciplines of history, philosophy, economics, geography, and anthropology. Additionally, all global studies students are encouraged to undertake a significant international experience, such as studying abroad. Studying abroad, however, is not necessary for meeting the degree requirements.

GLOBAL STUDIES (LAGS)
This program is for those who would like a strong educational background focused on global issues to transfer to a four-year institution or immediately enter professional employment by carefully selecting electives. Students may choose to major in virtually any academic discipline, such as anthropology, English, geography, or history. Students are encouraged to discuss majoring in any
specific area of study with their academic advisor. LAGS students can transfer to many four-year colleges or universities and start as a junior.

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ANT 111</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143 or 163</td>
<td>Statistics (or Pre-Calculus) or higher</td>
<td>3-4</td>
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<tr>
<td>EAS 110</td>
<td>Introduction to Environmental Science</td>
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<tr>
<td>PHL 180</td>
<td>World Philosophy</td>
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**Spring**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
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<tr>
<td>Lab Science Elective</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>PHL 110</td>
<td>Logic</td>
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**Year 2**

**Fall**

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<tbody>
<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENG 227</td>
<td>British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101</td>
<td>Macroeconomics</td>
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<tr>
<td>Global Studies Humanities Elective (see list below)</td>
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**Spring**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GEO 129</td>
<td>World And Cultural Geography</td>
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<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective</td>
<td></td>
<td>4</td>
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<tr>
<td>Global Studies Humanities Elective (see list below)</td>
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<td>3</td>
</tr>
<tr>
<td>ENG 290</td>
<td>Advanced Writing and Research</td>
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</table>

Total Credits: 61-63

1. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
2. General Electives: See General Electives (p. 357) exceptions.
3. Behavioral Social Science Elective: See Elective Courses by Abbreviation (p. 357).
4. Literature Electives: See Elective Courses by Abbreviation (p. 357).

Global Studies Humanities Electives

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ART 109</td>
<td>Art History I</td>
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<tr>
<td>ART 110</td>
<td>Art History II</td>
<td>3</td>
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<tr>
<td>HUM 240</td>
<td>Comparative Religion</td>
<td>3</td>
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<tr>
<td>HUM 260</td>
<td>The Art Of Being Human I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 290</td>
<td>Travel and Study: International Culture, Philosophy, and Arts</td>
<td>3</td>
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<tr>
<td>PHL 201</td>
<td>Introduction To Philosophical Issues</td>
<td>3</td>
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<tr>
<td>PHL 210</td>
<td>Levels Of Being</td>
<td>3</td>
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<tr>
<td>PHL 220</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 250</td>
<td>Ethics</td>
<td>3</td>
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</tbody>
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Student Success Tips
Eligible LAGS students should consider entering MWCC’s Honors Program. Honors Program students benefit from a challenging, highly individualized academic experience, a tuition waiver during their final semester, active recruitment by four-year colleges and universities, and the use of the Honors Center. Also, because of the program’s Commonwealth Honors Program status, all MWCC Honors courses are transferable as Honors courses within the Massachusetts public higher education system; and MWCC graduates are guaranteed acceptance into the Honors Programs of these colleges and universities. See the Honors Program (p. 58) for more information. LAGS students may want to consider study abroad as an option; a large selection of programs are available, including both short-term (two to four weeks) and longer-term options. Please contact the Study Abroad Office for more information.

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

MASSTRANSFER
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Special Requirements
Technical standards must be met with or without accommodations.

PROGRAM STUDENT LEARNING OUTCOMES FOR LAGS
Upon graduation from this program, students shall have the ability to:

• Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
• Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.
• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

CAPSTONE COURSE FOR LAGS
ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits. For LAGS, HUM 290 may serve as the capstone experience.

TECHNICAL STANDARDS ¹ FOR LAGS
¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Distinguish the movement of meter displays, positions of knobs on equipment, and images through camera lenses and/or small camera screens.
• Differentiate content, tones, and words in sound recordings.
• Work as a member of a team.
• Appropriately use production equipment with or without accommodations.

ENG 096. Writing Readiness. 3 Credits.
This course is designed to develop the student's skills in writing, focusing upon vocabulary development, standard English grammar, spelling, and usage. Student strengths and weaknesses in these areas are determined through initial testing. Upon completion of this course, the student will possess spelling and vocabulary development skills, use grammatically correct sentence structures, punctuate sentences correctly, use appropriate word choice, and develop a basic comprehensive essay. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: None.

ENG 097. Writing Seminar. 1-3 Credit.
The purpose of this course is to build confidence through intensive writing practice. Developmental students will learn to recognize certain standard elements of effective writing: the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. In-class writing workshops, group work and discussion, supplemental tasks and one-on-one instruction will support students as they work to improve as writers. Prerequisites: Placement; corequisite with ENG 101 required.

ENG 098. Fundamentals of Writing. 3 Credits.
Fundamentals of Writing is designed to help the basic writer recognize certain standard elements of effective writing: mainly the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. Students will be introduced to the writing process and will produce at least five (5) essays of at least 2-4 pages each by the end of the semester. Other forms of writing, such as journals, free-writes, and active learning exercises emphasizing student success skills, may also be included. At the end of the course, students must write a successful final essay to move forward to ENG 101. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: ENG 096 or placement. Corequisite: FYE 101. Institutional credit only.

ENG 101. College Writing I. 3 Credits.
Students will develop college-level English writing skills with an emphasis on the writing process, an awareness of purpose and audience, and an understanding of grammar, punctuation, and sentence structure. Reading selections will foster improved writing skills and critical and analytical thinking. By semester's end, students will have produced at least four essays totaling 12-15 pages of original, polished prose, as well as additional writing in varied forms, such as journals, free-writes, peer review, reading responses, and rough drafts. Students are required to successfully complete the MWCC Library Research Skills MOOC and will write at least one paper that incorporates outside source material. Working with an instruction librarian on the research project is encouraged. Prerequisites: ENG 098, RDG 098, FYE 101, or placement.

ENG 102. College Writing II. 3 Credits.
Writing about literary works will improve student writing, revision, critical thinking, and reading skills. The readings will be selected from a range of texts including fiction, non-fiction, poetry and drama. Evaluation and analysis will be accomplished through a variety of writing assignments, for example, discussion board posts, in-class writing, journals, free-writing, essay exams, and rough drafts of formal essays. By semester's end, students will have produced several pieces of writing totaling 12-15 pages of original, polished prose. At least one of the essays will incorporate library research that is cited and documented appropriately. Prerequisite: ENG 101.

ENG 106. Technical Writing. 3 Credits.
This course focuses on the study of basic writing patterns likely to be of use to the report/technical writer: summary, definition, explanation of a process, description and analysis, classifying data, designing effective formats and supplements, researching information, writing and documenting the research report, proposal writing, and the use of visual aids. The development of an effective reportorial style is emphasized. Overall, the course is designed to improve the students' powers of creative observation and develop accurate and concise writing skills. Prerequisite: ENG 101.

ENG 201. Honors English. 3 Credits.
This course is designed to improve the student's ability to think through writing. A range of intellectual tasks appropriate to honor level students, including close textual analysis, interpretation and evaluation of literary works (both fiction and non-fiction), will form the core of the course. A research project is required. The topic of this course changes each year. Prerequisites: ENG 102, and permission of the Honors Program coordinator. Fall.

ENG 203. Twentieth Century American Authors. 3 Credits.
This course is designed to explore American views of war, race, alienation, assimilation, family, and social change in the 20th century. A variety of critical approaches will be applied to novels, short stories, poetry, plays, and essays. Some of the authors studied may include Hemingway, Faulkner, O'Connor, Vonnegut, Morrison, and Erdrich. Prerequisite: ENG 102 or permission of division dean.
ENG 205. Shakespeare. 3 Credits.
This course surveys plays from each of the periods of Shakespeare's work: history, comedy, tragedy, and romance. Readings include The First Part of King Henry the Fourth and The Second Part of King Henry the Fourth from the histories; A Midsummer Night's Dream from the comedies; Hamlet, Prince of Denmark from the tragedies, and The Tempest from the romances. The course emphasizes textual analysis with a focus on thematic issues raised by the plays. Prerequisite: ENG 102. Spring.

ENG 213. American Literature I. 3 Credits.
This course surveys significant American writings from 1620 through the 19th century covering the following eras: Puritans, Colonial/Revolution, Enlightenment/Romantic and Transcendentalist/Abolitionist. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Bradford, Rowlandson, Jefferson, Franklin, Emerson, Thoreau, Whitman, Fuller, Hawthorne, Melville, Douglass, Dickinson. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Fall.

ENG 214. American Literature II. 3 Credits.
This course surveys significant American writing from 1890 to the present covering the following: Realism, Modernism/Harlem Renaissance, Mid-20th Century, Post-Modernism/Multiculturalism/Contemporary. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Twain, Chopin, Frost, Stevens, Moore, Hughes, O’Neill, Miller, Wilson, Ginsberg, Rich, LeGuin, Anzaldua. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Spring.

ENG 220. The Literature of Resistance. 3 Credits.
This course will explore expressions of resistance from a variety of cultures and historical periods. Students will read works that take a stand against or show characters taking a stand against political, social, or economic realities. Assigned readings may include works by Sophocles, Thomas Paine, Thomas Jefferson, Henry David Thoreau, Frederick Douglass, Toni Morrison, Marjane Satrapi, Julia Alvarez, and Tony Kushner, as well as Biblical texts and music. Prerequisite: ENG 102.

ENG 221. Women's Literature. 3 Credits.
This course will consider the essential issues raised in literature concerning the role and image of women in society. Included will be essays, short stories, and novels by authors such as Kate Chopin, Willa Cather, Virginia Woolf, and Toni Morrison. Prerequisite: ENG 102 or permission of division dean. Spring.

ENG 223. Contemporary Global Literature. 3 Credits.
Contemporary global literature includes twentieth- and twenty-first-century literatures, other than British and American, either written in English or read in translation. Readings represent a variety of cultures and belief systems and include world regional and diasporic literatures such as African, Asian, Latin American, Middle Eastern, etc. Emphasis is placed on interpreting literary texts in relation to their cultural, political, and historical contexts, as well as the conventions of literary movements and genres such as postcolonialism, magical realism, science fiction, etc. Through readings, discussions, and several written assignments, students will expand their awareness, understanding, sensitivity, and empathy in regard to differences between other cultures’ perspectives and their own. Close reading exercises and other scaffolded writing assignments will strengthen skills in close reading and literary analysis, culminating in a thesis-driven essay interpreting one or more works of literature. Additional assignments may include a group research presentation, an author interview writing project, and a final essay exam. By the end of the semester, students will have produced 12-15 pages of polished writing. Prerequisites: ENG 102 or permission of the Division Dean.

ENG 224. Mystery Fiction. 3 Credits.
This course studies the history and nature of the mystery story from the works of Poe to such present day masters as Agatha Christie and Tony Hillerman. Students will examine both the relationship of mystery fiction to the culture of its time and the changing role of the detective hero. Students will study the techniques of the mystery writer and the relationship between mystery fiction and "serious" literature. Works by such authors as Poe, Arthur Conan Doyle, Hammett, Chandler, Christie, and Hillerman are included. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 227. British Literature I. 3 Credits.
This course is a study of selected works by major writers in British literature through the Restoration and the 18th century. Emphasis is placed on a responsive and critical reading as well as on literary and historical background. Includes works by, but not limited to, Chaucer, Shakespeare, Milton, Pope, and Johnson. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 233. Science Fiction. 3 Credits.
As a literary genre, science fiction – like science – is continually changing and redefining itself, creating modern myths that show us our greatest hopes and our deepest fears about humanity, science, technology, and the future, as well as examining contemporary
issues around race, class, gender, and sexuality. This course introduces students to a variety of science fiction texts – both classic and contemporary – and may include works by Mary Shelley, H.G. Wells, George Orwell, Ray Bradbury, Issac Asimov, Ursula Le Guin, Philip K. Dick, Octavia Butler, and Margaret Atwood. Prerequisite: ENG 102 or permission of division dean.

ENG 235. Children’s Literature. 3 Credits.
Students in this course consider a variety of children’s literature not only as literary and artistic expressions but also as historical and social artifacts. The course emphasizes illustrated books (picture storybooks) but also includes selections of chapter and young adult works. Students analyze and assess the literary merit and visual artistry of books from various genres, from diverse authors and illustrators. Those genres include fantasy, traditional literature (fairy tales), poetry, realistic and historical fiction, biography, and other non-fiction works. Students also explore issues related to education, censorship, multiculturalism, diversity, and the changing views of childhood. Course concepts are acquired primarily through reading and writing, with some discussion and lecture. Throughout the semester, students will present a variety of polished prose and written assessment of selected works in a variety of forms, including a scholarly research paper using library sources. Written work totaling at least 12-15 pages will be assigned. Additionally, other written analysis, reading responses, in-class essays, and rough drafts of formal essays may be required. Prerequisite: ENG 102 or permission of division dean.

ENG 236. Modern Drama. 3 Credits.
This course is a survey of international dramatic literature from 1879 to the present, encompassing such theatrical and literary movements as Realism, Expressionism, and Absurdism. Although the course includes some attention to production values (staging, performance, etc.), the emphasis is primarily on dramatic works as literary texts. Both primary and secondary texts will be assigned so that students become familiar with important works of criticism as well as the plays themselves. Readings include works by Ibsen, Chekhov, O’Neill, Williams, Beckett, Fugard, Hansberry, and Miller. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 237. Special Topics: Queer American Drama. 3 Credits.
Queer: once a derogatory word used against gay, lesbian, bisexual, and transgendered people has been reclaimed by social activists, writers, artists, educators, and scholars to describe all non-normative sexualities and identities, all that is considered by the dominant paradigms to be alien, strange, transgressive, odd in short, queer. This course will explore queer themes in American dramatic literature from mid-twentieth century to the present. Emphasis will be on how images of gays, lesbians, and other sexual minorities have changed over the past half-century beginning with plays that precede the gay liberation movement, continuing with work from the early years of the AIDS pandemic, and ending in the present day. Authors studied may include Lillian Hellman, Tennessee Williams, Mort Crowley, Jonathan Larson, David Henry Hwang, and Tony Kushner. Prerequisite: ENG 102 or permission of division dean. This course may be used by LAT students as a substitute for Modern Drama.

ENG 238. Special Topics: Queer American Literature. 3 Credits.
This course is a study of works that present a queer identity. It will focus on works that represent the experience of being gay, lesbian, bisexual, or transgender. Students will analyze and assess the literary merit and visual artistry of books from various genres, from diverse authors and illustrators. Those genres include fantasy, traditional literature (fairy tales), poetry, realistic and historical fiction, biography, and other non-fiction works. Students also explore issues related to education, censorship, multiculturalism, diversity, and the changing views of childhood. Course concepts are acquired primarily through reading and writing, with some discussion and lecture. Throughout the semester, students will present a variety of polished prose and written assessment of selected works in a variety of forms, including a scholarly research paper using library sources. Written work totaling at least 12-15 pages will be assigned. Additionally, other written analysis, reading responses, in-class essays, and rough drafts of formal essays may be required. Prerequisite: ENG 102 or permission of division dean.

ENG 239. Creative Writing I. 3 Credits.
This course is an introduction to writing fiction, poetry, and drama. Students will experiment with a variety of literary styles and genres, learn to give and receive feedback in a workshop setting, and have the opportunity to read published authors. Lectures and workshops will introduce students to literary devices and techniques, such as dialogue, plot, setting, characterization, point of view, alliteration, assonance, tone, diction, and metaphor. Prerequisite: ENG 101.

ENG 240. Creative Writing II. 3 Credits.
This course is an advanced writing workshop designed to give experienced writers the opportunity to hone their craft, while continuing to explore new styles and techniques. Workshops will present students with the opportunity to revise and refine their writing in preparation for publication in professional literary journals and magazines. Prerequisite: ENG 102, ENG 239.

ENG 241. Journalism I: Media Writing. 3 Credits.
This course helps students to become more concise writers by addressing the basic skills of journalism: observing, researching, reporting, interviewing, thinking, and writing with precision, clarity, and ethics. Assignments include basic reporting, local beat coverage, blogging, and multi-source stories. Students will be exposed to print and web writing, as well as some technology (including digital cameras and video). Student news stories will be submitted for the print and web editions of the MWCC student newspaper, The Mount Observer. Corequisite: ENG 101 or permission of division dean.

ENG 242. Journalism II: Advancing Newswriting. 3 Credits.
Continuation of ENG 241 Journalism I: News Reporting and Writing. This course is designed to further students' mastery of such journalistic techniques as idea development, news gathering, newsroom operation, editing, and layout. Emphasis will also be placed on writing for print and web editions of the student newspaper, mentoring students in the Journalism I course, editing articles, checking sources and facts, and putting together the monthly editions of both print and web. Students will be exposed to some technology (digital cameras, video). Prerequisite: ENG 241 or permission of division dean.

ENG 245. Film Appreciation. 3 Credits.
Through selected reading in film and literary theory and the screening of high quality films, the class examines and develops a greater awareness of basic film techniques, practices, and aesthetics. Emphasis is placed upon the relationship between film and literature
(i.e., narrative structure, figurative language, problems of adaptation, criticism, genre) and film as a unique twentieth-century art form that incorporates a number of other media and arts. Prerequisite: ENG 102.

**ENG 251. Introduction To Public Relations. 3 Credits.**
This course covers all forms of writing for public relations, including press releases, public service announcements, features, newsletters, and presentations. This course emphasizes the strategy of crafting and delivering a PR message with final culmination in designing a public relations strategy for an existing organization in the community. Corequisite: ENG 101. Fall.

**ENG 252. Shakespeare and Star Wars: A Study of Tragedy through Drama and Film. 3 Credits.**
In this course, students will draw comparisons between the worlds of Shakespeare and Star Wars through an in-depth, critical analysis of Shakespeare’s tragic heroes and the journey of Anakin Skywalker as tragic hero. Students will read Julius Caesar, Othello, and Macbeth and also be required to read supplemental material including, but not limited to, script excerpts, biblical readings, and Elizabethan historical information. Finally, students will watch the second installment of the Star Wars trilogy, with a focus on The Revenge of the Sith. Questions of government and leadership, power and lust, jealousy and fatal attraction, friendship, religion, forbidden love, good vs. evil, stoicism, and temptation will be some of the topics discussed and expanded upon through various writing assignments, projects, and research. Prerequisite: ENG 101 or permission of division dean.

**ENG 259. Literary Masterpieces I. 3 Credits.**
This course is a study of representative literary masterpieces of Eastern and Western civilization for moral, philosophical, social, and psychological insights into the nature of modern man. Readings are taken from such sources as Aristotle, Greek drama, Plato, Milton, Chaucer, Machiavelli, Dante, and Shakespeare. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Fall.

**ENG 260. Literary Masterpieces II. 3 Credits.**
This course is a continuation of ENG 259 Literary Masterpieces I, with selections from Renaissance to contemporary culture. This course emphasizes western heroes and anti-heroes from the works of such authors as Voltaire, Tolstoy, Dostoevsky, Flaubert, Camus, Pope, and Mallarme. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Spring.

**ENG 261. The Short Story. 3 Credits.**
This course traces the development of the short story as a distinct literary genre from its origins in the early 19th century to the present. Emphasis is on close reading and analysis of texts by international writers. The course covers the major literary movements of the 19th and 20th centuries: Romanticism, Realism, Naturalism, Modernism, and Postmodernism. Readings include stories by Poe, de Maupassant, Chopin, Hemingway, Kafka, Joyce, O'Connor, and Carver. Prerequisite: ENG 102 or permission of division dean. Spring.

**ENG 283. Journalism Practicum. 3 Credits.**
This course is designed to provide students with opportunities for the enhancement of their course work in Journalism through external internships/shadowing at local media and more in-depth leadership as the Editor-in-Chief of the student newspaper. Prerequisites: ENG 242.

**ENG 289. American Romanticism. 3 Credits.**
This course is a study of significant American writing of the 19th century, a time of exploration and experimentation, which scholars have referred to as The American Renaissance. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments. Included are works by such authors as Emerson, Thoreau, Whitman, Fuller, Hawthorne, Dickinson, Douglass, Stowe & Melville. Prerequisite: ENG 102 or permission of instructor/division dean. Fall.

**ENG 290. Advanced Writing and Research. 3 Credits.**
In this course students demonstrate their ability to conduct academic writing and research by refining skills introduced in earlier composition courses and practiced elsewhere in their degree program. Students will engage with scholarship from a variety of disciplines, draft and revise essays in a number of academic genres (including summary and response, close analysis, and argument), conduct intensive library research for a substantial documented essay accompanied by an instructional librarian, and prepare a self-reflective narrative to accompany a completed portfolio of written work. Prerequisite: ENG 101, ENG 102; completion of at least 45 college-level credits, including completion of or co-enrollment in at least one 200-level ENG course.

**GRAPHIC AND INTERACTIVE DESIGN**
The Graphic and Interactive Design Program at Mount Wachusett Community College provides students with the opportunity to earn a Certificate in Graphic and Interactive Design or an Associate Degree in Graphic and Interactive Design. Upon completion of either program, students are prepared for positions in business marketing, promotional design, advertising, brand and corporate design, publication design, web design and motion graphics. During the course of study, the student will develop skills, tools and knowledge
to become an innovative, creative thinker and leader in the industry. Students will gain knowledge in technique, creative expression, integration of the latest design tools, and development of outstanding graphic and interactive design portfolios.

**GRAPHIC AND INTERACTIVE DESIGN (GID)**

This program provides students with the visual design, communication, computer graphic, and website coding skills necessary to be competitive for an entry-level position in the visual communications field and/or to continue their education at a four-year college with an opportunity for credit transfer. For those already employed, this area of study offers them a chance to upgrade and add to their current skill set, improving their prospects for job advancement. Students will research, plan and create effective, conceptual design for use in print publishing, website interfaces and interactive design projects. Classes in design theory, visual literacy, typography, and print and web production using industry-standard software and state-of-the-art computer technology will help students generate and prepare design projects for both a print portfolio and an interactive portfolio. Creative print and web design projects include digital illustration, corporate communication and identity, publication and marketing design, interactive website design, and motion graphics. Real-world projects and client-based service learning will fully prepare students to enter the creative arts field in print and web design studios, advertising agencies, the publishing industry, and design departments of large and small businesses. The most current graphic and interactive design software is utilized and includes Adobe Photoshop, Illustrator, InDesign, Acrobat, Dreamweaver, and After Effects, as well as HTML, CSS, basic Javascript, and jQuery.

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GID 101</td>
<td>Design Theory (Formerly CGD 101) 3</td>
</tr>
<tr>
<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104) 3</td>
</tr>
<tr>
<td>GID 109</td>
<td>Introduction To Web Design (Formerly CGD 240) 3</td>
</tr>
<tr>
<td>ART 263</td>
<td>Drawing I 3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I 3</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GID 113</td>
<td>Interactive Web Design (formerly CGD 241) 4</td>
</tr>
<tr>
<td>GID 115</td>
<td>Digital Illustration (Illustrator) (Formerly CGD 105) 3</td>
</tr>
<tr>
<td>GID 117</td>
<td>Typography In Visual Communication (Indesign) (Formerly CGD 235) 3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Two-Dimensional Design 3</td>
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<td>ENG 102</td>
<td>College Writing II 3</td>
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**Year 2**

**Fall**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GID 202</td>
<td>Publication Design (InDesign) (Formerly CGD 102) 3</td>
</tr>
<tr>
<td>GID 204</td>
<td>Advanced Digital Imaging (Advanced Photoshop) (Formerly CGD 204) 3</td>
</tr>
<tr>
<td>GID 209</td>
<td>Advanced Web Design (Formerly CGD 244) 3</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher) 3</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GID 216</td>
<td>Motion Graphics for Interactive Media 3</td>
</tr>
<tr>
<td>GID 299</td>
<td>Portfolio Preparation and Production (Formerly CGD 210) 4</td>
</tr>
<tr>
<td>Social Science Elective</td>
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<tr>
<td>Science Elective</td>
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<tr>
<td>Marketing Elective 3</td>
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</table>

**Total Credits:** 62-63

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1. Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Science Electives: See Elective Courses by Abbreviation (p. 357).

**PROFESSIONAL ELECTIVES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 109</td>
<td>Art History I 3</td>
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<tr>
<td>ART 110</td>
<td>Art History II 3</td>
</tr>
<tr>
<td>ART 253</td>
<td>Painting I 3</td>
</tr>
<tr>
<td>ART 259</td>
<td>Ceramics I 3</td>
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</table>
ART 264        Drawing II        3
ART 286        Printmaking I       3
ART 252        Three-Dimensional Design  3
BUS 125        Communication For Business And Industry  3
CIS 109        Introduction to Programming  3
ENG 106        Technical Writing  3
ENG 241        Journalism I: Media Writing  3
ENG 251        Introduction To Public Relations  3
MGT 110        Introduction to Business  3
MGT 210        Principles Of Management  3
MKT 142        Marketing  3
MKT 241        Advertising  3
MRT 105        Introduction To Mass Media  3
MRT 110        Fundamentals of Video Production  3
MRT 208        Writing For Visual Media (Formerly Scriptwriting)  3
PHO 115        Introduction To Digital Photography  3
SPC 113        Speech (formerly THE113)  3

MARKETING ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MKT 142</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKT 241</td>
<td>Advertising</td>
<td>3</td>
</tr>
</tbody>
</table>

See the Graphic and Interactive Design general information for program student learning outcomes and technical standards.

**Transfer Options**
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**Special Requirements**
GID students should either have a computer at home with Internet access and the Adobe Creative Suite or be able to spend time outside of class in the Graphic Design computer labs where Internet access and the Creative Adobe Suite are provided. A grade of C or better is recommended for students taking GID courses. Students should follow suggested course sequence, since most courses are not offered out of sequence. Technical standards must be met with or without accommodations.

**Career Options/Earning Potential**
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=computer+graphic+design+print&amp;SearchType=occupation)
GRAPHIC AND INTERACTIVE DESIGN CERTIFICATE (GIDC)

This certificate is for students with prior computer knowledge, business experience, or a degree in a computer-related field who wish to upgrade and add to their current skill set, improving their prospects for job advancement or for personal use. Students will research, plan and create effective, conceptual design for use in print publishing, website interfaces and interactive design projects. Classes in design theory, visual literacy, typography, and print and web production using industry-standard software and state-of-the-art computer technology will help students generate and prepare design projects. The most current graphic and interactive design software is utilized and includes Adobe Photoshop, Illustrator, InDesign, Acrobat, and Dreamweaver, as well as HTML, CSS, basic Javascript, and jQuery.

Year 1

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GID 101</td>
<td>Design Theory (Formerly CGD 101)</td>
<td>3</td>
</tr>
<tr>
<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
<td>3</td>
</tr>
<tr>
<td>GID 109</td>
<td>Introduction To Web Design (Formerly CGD 240)</td>
<td>3</td>
</tr>
<tr>
<td>GID Professional Elective (see list below)</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GID 113</td>
<td>Interactive Web Design (formerly CGD 241)</td>
<td>4</td>
</tr>
<tr>
<td>GID 115</td>
<td>Digital Illustration (Illustrator) (Formerly CGD 105)</td>
<td>3</td>
</tr>
<tr>
<td>GID 117</td>
<td>Typography In Visual Communication (InDesign) (Formerly CGD 235)</td>
<td>3</td>
</tr>
<tr>
<td>GID Professional Elective (see list below)</td>
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</table>

Total Credits: 25

GID PROFESSIONAL ELECTIVES

Please consult with an advisor

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ART 251</td>
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<tr>
<td>ART 263</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>BUS 125</td>
<td>Communication For Business And Industry</td>
<td>3</td>
</tr>
<tr>
<td>CIS 109</td>
<td>Introduction to Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENG 106</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
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<td>ENG 241</td>
<td>Journalism I: Media Writing</td>
<td>3</td>
</tr>
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<td>Introduction To Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>GID 202</td>
<td>Publication Design (InDesign) (Formerly CGD 102)</td>
<td>3</td>
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<tr>
<td>GID 204</td>
<td>Advanced Digital Imaging (Advanced Photoshop) (Formerly CGD 204)</td>
<td>3</td>
</tr>
<tr>
<td>GID 209</td>
<td>Advanced Web Design (Formerly CGD 244)</td>
<td>3</td>
</tr>
<tr>
<td>GID 216</td>
<td>Motion Graphics for Interactive Media</td>
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<tr>
<td>MGT 110</td>
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<td>3</td>
</tr>
<tr>
<td>PHO 115</td>
<td>Introduction To Digital Photography (if not previously taken)</td>
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</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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</tr>
</tbody>
</table>
See Graphic and Interactive Design program student learning outcomes and technical standards.

**Special Requirements**

GIDC students should either have a computer at home with internet access and the Adobe Creative Cloud or be able to spend time outside of class in the graphic design computer labs where internet access and the Adobe Creative Cloud are provided. A grade of C or better is recommended for students taking GID courses. Students should follow the suggested course sequence, since most courses are not offered out of sequence. Most courses in the GIDC Certificate may be applied to the GID Degree. Technical standards must be met with or without accommodations.

**Transfer Options**

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Graphic and Interactive Design Degree.

**Career Options/Earning Potential**

For career options, please click here. ([https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=computer+graphic+design+print&SearchType=occupation](https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=computer+graphic+design+print&SearchType=occupation))

**PROGRAM STUDENT LEARNING OUTCOMES FOR GID, GIDC**

Upon graduation from this program, students will:

- Design effective visual communication pieces for both print and interactive design that demonstrate a solid understanding of design, including the elements and principles of design and typography.
- Demonstrate a clear understanding of the principles of visual communication coupled with an understanding of current print, web and interactive design tools, concepts, terminology, and techniques to produce concept-driven design work.
- Define and employ the design process especially as it relates to:
  - Audience definition, research, analysis, and concept development; the production of thumbnail sketches, rough drafts, and the preparation of final comprehensive print layouts and websites.
- Gain an intermediate to advanced skill set in industry-standard applications, including the Adobe Creative Cloud and other appropriate programs.
- Transform and enhance digital imagery through the use of Adobe Photoshop with emphasis on the creation of high-quality graphics for print and interactive design.
- Create complex digital illustrations and layouts with a solid understanding of the complex functions of Adobe Illustrator.
- Plan, design and develop multi-page publication designs while utilizing design elements and principles, grids, typography and layout techniques.
- Define print capabilities and the printing process, and utilize pre-press techniques.
- Plan, design, and develop interactive websites utilizing intermediate to advanced web authoring techniques and industry-standard software.
- Demonstrate proficiency in: project planning, UX, hand coding HTML and CSS; the fundamental applications of Javascript and jQuery; and building a variety of fixed, responsive and mobile website layouts.
- Create dynamic, motion graphics while utilizing industry-standard software.
- Manage and develop client-based graphic and interactive design projects with the use of effective design, layout and navigational architecture while meeting strict deadlines.
- Demonstrate a clear understanding of the concepts and restrictions of copyrights and intellectual property laws.
- Prepare for the job market with career planning, skill assessment, resume writing, and interviewing, as well as compile a professional-quality portfolio for entering the job market or for transferring to a four-year program.

**TECHNICAL STANDARDS FOR GID, GIDC**

For general information about technical standards and accommodations, see Technical Standards (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Read and comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
• Write at a college level as evidenced by completion of ENG 098 Fundamentals of Writing or placement into ENG 101 English Composition I.
• Read and proof printed text from a computer screen, with or without corrective adaptive devices.
• Exhibit social skills appropriate to professional interactions.
• Perceive, interpret, and use graphic images in their entirety from a computer screen.
• Perceive and use computer screen RGB colors.
• Learn to operate a computer with sufficient manual dexterity to manipulate peripherals such as keyboard, mouse, and graphics tablets.
• Be physically capable to work at a computer for a minimum of several hours.

**GID 101. Design Theory (Formerly CGD 101). 3 Credits.**
This course is an introduction to the Graphic Design field. It is a combination of lecture, group critique, computer demonstration, and hands-on applications. Through a series of exercises, special emphasis is placed on the understanding of the fundamentals of design and typography as they are applied to the development of effective visual communication for both print and web applications. Through research and analysis, students will become familiar with a history of Graphic Design and contemporary designs from leading members of the wider Graphic Design community. Students will create a comprehensive final project consisting of both print- and web-designed projects within a campaign for a Public Service Announcement (PSA). This course also addresses audience definition, research and analysis, concept development, and the production of thumbnail sketches, rough drafts, and the preparation of final comprehensive layouts. Prerequisites: ENG 098, FYE 101, RDG 098, or placement; GID 104 (Formerly CGD104) (or corequisite). Fall for GID students. Spring for non-majors.

**GID 104. Digital Imaging (Photoshop) (Formerly CGD 104). 3 Credits.**
This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Students will learn the basics of designing electronic artwork with special emphasis on understanding the tools and techniques of Adobe Photoshop. Students will be able to transform digital images into new pieces of art through the use of non-destructive editing techniques: smart objects, masks, adjustment layers, smart filters, selections and channels. In addition, students will employ creative and effective use of the elements and principles of design and typography in various projects. Students will create, optimize, and save graphics for the web. Basic computer skills are required: Ability to use a computer operating system and follow basic procedures including keyboard/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**GID 109. Introduction To Web Design (Formerly CGD 240). 3 Credits.**
This course is the first in a three-part series teaching front-end web design and development. The course begins with an overview of the Internet and the World Wide Web, followed by an introduction to the three layers of web development, structure (HTML), style (CSS) and behavior (JavaScript). Students will hand code a variety of web page assignments to master the fundamental techniques presented in this course. Emphasis throughout the course will include the effective use of project planning techniques, the principles of design, user experience (UX) design, writing and typography for the web, and validation and browser testing. Additional topics include file management, copyright and the use of images on the Web, research, and information literacy. Basic computer skills are required: ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**GID 113. Interactive Web Design (formerly CGD 241). 4 Credits.**
The second course in a three-part series teaching front-end web design and development, this course picks up where GID 109 ends. We begin with a brief recap of previous skills, followed by a study of additional layouts including responsive web design layouts that adapt to the size of the device being used. Additional techniques include CSS3, HTML5, flexible images, media queries, and advanced navigation bars. An overview of Mobile Web Design will be included. Students continue to increase their knowledge of JavaScript and jQuery to add interactivity to their web pages. A variety of web page assignments will be hand coded to master the fundamental techniques presented in this course. Emphasis continues on the effective use of project planning techniques, the principles of design, user experience (UX) design, writing and typography for the web, validation and browser testing. One of two required creative website projects will focus in-depth on working with a client. Prerequisites: GID 109 or permission of the Division Dean; GID 101, GID 104 and GID 117 are recommended as pre- or corequisites. Spring.

**GID 115. Digital Illustration (Illustrator) (Formerly CGD 105). 3 Credits.**
This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Students will learn the basic elements of vector graphics—paths, strokes and fills—and how to use Adobe Illustrator’s powerful drawing tools. The course also explores how to use color, build complex shapes from simple paths, and produce a detailed trace from a bitmap image, sketch or line art. Special emphasis is on understanding the Bezier pen tool, as well as learning specialized
techniques for creating line-art, complex color illustrations, and two and three-dimensional drawings. Students will illustrate and design two creative projects that are a culmination of the skills and techniques learned in the class. Basic computer skills are required: ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

GID 117. Typography In Visual Communication (InDesign) (Formerly CGD 235). 3 Credits.
Typeface is what sets graphic designers apart from other artists. They understand that letterform can communicate the mood and meaning in the written word. It is for this reason that this course will focus on a solid understanding of typography in visual communications with the use of Adobe InDesign. Students will explore the anatomy of the letterform through various exercises while learning how to classify typefaces and how to use them effectively and creatively. They will explore the characteristics of typefaces to develop a basic proficiency in identifying the distinctive features of each. Students will acquire a solid foundation in the basics of typography and will as a result make better decisions about typographic usage. Details of text layout and information hierarchy will be emphasized. Integration of other CSS programs, to create professional appealing designs for both print and web projects, is covered. Students will learn how to use typography on the page as an integrated graphic element to produce typographic solutions effectively and creatively. Saving InDesign documents for web access will be covered as well. Online as well as print assignments using type predominantly will be required. Students will design two creative projects using Adobe InDesign. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Spring.

GID 202. Publication Design (InDesign) (Formerly CGD 102). 3 Credits.
This project-based course is a continuation of GID 101 Design Theory and GID 117 Typography in Visual Communication and focuses on an advanced understanding of graphic design principles, theory and practices, concept development and the production of portfolio-ready, multi-paged layouts. Emphasis is on understanding complex layout formats and composition while utilizing Adobe InDesign, Photoshop, Illustrator and Acrobat PDF. Through various exercises, students will explore grids, typography, and advanced layout techniques such as master pages and style sheets. Students will create two sophisticated, multi-paged publication design projects. Prerequisites: GID 101, GID 104, GID 115, GID 117 or permission of the Division Dean. Fall.

GID 204. Advanced Digital Imaging (Advanced Photoshop) (Formerly CGD 204). 3 Credits.
This course covers extensive and advanced use of Adobe Photoshop, with a supporting role for Adobe Bridge. Students will work with photographic images using tools from all of these Adobe packages for more advanced image creation and editing techniques. Bridge will be used to manage files and integrate all of the Adobe program files to place elements into their projects. Extensive work with compositing files and working with smart objects, Camera Raw, and smart filters to non-destructively edit images will required. Advanced operation of tools and palettes, file formats, optimizing images for the Web and other media, retouching files, masks, paths, channels, color adjustment for printing, animation and video for the Web will be covered as well. Students will be able to transform digital images into new pieces of art through the use of non-destructive editing techniques: masks, adjustment layers, selections and channels. In addition, students will employ creative and effective use of the elements and principles of design and typography in various projects. Students will research, plan, and design creative projects for both print and Web. This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Prerequisites: GID 101, GID 104 or permission of the Division Dean. Fall.

GID 209. Advanced Web Design (Formerly CGD 244). 3 Credits.
This is a culminating course in the three-part series teaching front-end web design and development. This course picks up where GID 113 ends and will require students to effectively employ the skills and techniques they’ve learned in all of their previous GID web design classes. In this class, students will concentrate on building advanced website wireframes and layouts, creating an HTML email campaign while learning to use popular online HTML email campaign solutions, creating a WordPress website, and using HTML frameworks. We begin with examining a variety of advanced website layouts including online stores, magazine and news style layouts, and parallax style layouts. For the first Creative Project, students will explore digital marketing through the design, building, and sending of a multi-piece promotional HTML email campaign using one of the popular online email platform options. Creative Project One will be followed by an introduction to building WordPress sites for clients who wish to have a designer create the initial site and then want to maintain it on their own. Students will then build a WordPress website for their second Creative Project. Additional topics will include CSS3, HTML5 and building separate mobile websites. Prerequisite: GID 113. Fall.

GID 216. Motion Graphics for Interactive Media. 3 Credits.
This course is an introduction to motion graphics and animation for designers. Students will explore the relationship between graphic design and time-based, interactive media while examining contemporary and historical examples of motion graphics and animation. This course will focus on the use of current industry standard software to produce a range of motion graphics projects for the Web and other interfaces. Students will be introduced to strategies of visual communication through kinetic elements: form, speed, rhythm, orientation, color, texture and quality of motion. Projects will cover basic animation principles, design and composition, typography, timing, storyboarding, and incorporating sound and music. Through varying creative projects, students will gain a solid foundation
of motion graphics and animation and techniques that will support their creativity and enhance their digital skill-set. Prerequisites: GID 104 or GID 177 or permission of Division Dean. ENG 101 recommended as a pre or co-requisite.

**GID 299. Portfolio Preparation and Production (Formerly CGD 210). 4 Credits.**

This 4-credit course is the final capstone class in the GID program. Students will rework and refine their past projects for their portfolio, experience a “real world” client/designer professional relationship, explore production issues of print and web designs, write a resume, and develop a personal visual identity for self promotion. Students are expected to be proficient in page layout, digital imaging, digital illustration and web design as they move their strongest pieces forward, strengthening their portfolio as they advance their visual communication skills. The teacher will act as a facilitator for group critiques, organize guest speakers and field trips, and provide service learning supervision. Service Learning provides students with an opportunity to enhance their design skills, in collaboration with a community-based nonprofit organization, as they provide creative visual solutions for their client. This course will prepare the student to enter the field of graphic and interactive design with both a printed and on-line portfolio of their best work, a comprehensive understanding of a perspective employer’s expectations, and how to meet those expectations. As well, throughout the course students will gain a solid working knowledge of prepress and production techniques as it applies to their personal and client-based projects. Prerequisites: GID 101, GID 104, GID 109, GID 113, GID 115, GID 117, GID 202, GID 204, GID 209 or permission of the Division Dean.

**HISTORY AND POLITICAL SCIENCE TRACK**

The History and Political Science Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The History and Political Science Track offers a student the opportunity to explore U. S. and world history while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

**HISTORY AND POLITICAL SCIENCE TRACK (LAHP)**

**A Degree in Liberal Arts and Sciences**

This program is for those who want a strong background in history and political science and plan to transfer to a four-year college or university to pursue a degree in history, political science, or government. With a bachelor’s degree in history or political science, the student may pursue a career in government and politics, teach history or teach political science, pursue a master’s degree in public policy or management, or earn a degree to practice law.

1*This program satisfies MassTransfer Pathways for History but does not satisfy all MassTransfer Pathways for Political Science.*

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<th>Year 1</th>
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<td><strong>Fall</strong></td>
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<tr>
<td>ENG 101</td>
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<td>HIS 201</td>
<td>History of United States I</td>
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<td>CIS 127</td>
<td>Computer Technologies</td>
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<td>MAT 143</td>
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<td><strong>Spring</strong></td>
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<td>ENG 102</td>
<td>College Writing II</td>
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<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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<tr>
<td>HIS 202</td>
<td>History of United States II</td>
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<tr>
<td>Science Elective ²</td>
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<tr>
<td>Behavioral Social Science Elective ¹</td>
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<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
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<tr>
<td>Lab Science Elective ³</td>
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<td>Literature Elective ⁴</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
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<tr>
<td>Literature Elective ⁴</td>
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<td>3</td>
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<tr>
<td>ENG 290</td>
<td>Advanced Writing and Research</td>
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<tr>
<td>POL 211</td>
<td>Introduction to American Government and Politics</td>
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Restrictive Elective (see list below)  3
Humanities Elective  3

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<tr>
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<td>POL 250</td>
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</table>

See History and Political Science program student learning outcomes and technical standards.

**Student Success Tips**

Eligible LAS students should consider entering MWCC’s Honors Program. Honors Program students benefit from a challenging, highly individualized academic experience; a tuition waiver during their final semester; active recruitment by four-year colleges and universities; and the use of the Honors Center. Also, because of the program’s Commonwealth Honors Program status, all MWCC Honors courses are transferable as Honors courses within the Massachusetts public higher education system; and MWCC graduates are guaranteed acceptance into the Honors Programs of these colleges and universities. See the Honors Program (p. 58) for more information.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

**Transfer Options**

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**MASSTransfer**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

**Special Requirements**

Technical standards must be met with or without accommodations.

**PROGRAM STUDENT LEARNING OUTCOMES FOR LAHP**

Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.

• Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.

• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.

• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.

• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.

• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

**CAPSTONE COURSE FOR LAHP**

ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

**TECHNICAL STANDARDS FOR LAHP**

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.

• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.

• Gather, analyze, and draw conclusions from data.

• Work as a member of a team.

**HIS 105. History Of World Civilization I. 3 Credits.**

This course is an introductory survey of the major world civilizations from ancient times to 1600. The course profiles major events in the development of Europe, Asia, Africa, and the Americas up to 1600. Special emphasis will be placed on the interrelationships among these civilizations and on the role of religion in their development. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**HIS 106. History Of World Civilization II. 3 Credits.**

This course is an introductory survey of the major world civilizations from 1600 to the present. The course profiles major events in the development of Europe, Asia, Africa, and the Americas since 1600. Special emphasis will be placed on European events and their effects on the other civilizations of the world as well as on the interrelationships of the various civilizations toward each other. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**HIS 113. History Of Contemporary Issues. 3 Credits.**

This course focuses on domestic and world events as they occur, interpreted in the light of both historical background and current issues and events. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Spring.

**HIS 121. History Of The Constitution. 3 Credits.**

This course surveys the progress of constitutionalism in American life and its shaping of our society since 1776. Special emphasis will be placed on key Supreme Court decisions that have defined judicial review, free expression, religious freedom, due process, and the individual’s right to privacy over the past 200 years. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 123. History Of Modern America. 3 Credits.**

Students study the relationship between foreign and domestic events and the evolution of American history from 1945 to the present. Special emphasis is placed on the legacies of the New Deal, World War II, Vietnam and their influences on the presidents of the last sixty years. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 125. American Ethnic History. 3 Credits.**

Students will examine the contributions of various ethnic groups to American society, as well as the problems that these groups encountered in the assimilation process. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.
HIS 140. History Of New England. 3 Credits.
The political, social, economic, and intellectual history of New England from Colonial times to the present is studied. Special emphasis is placed on New England's development as a distinct cultural region and its impact on American life. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HIS 151. Contemporary American Military History. 3 Credits.
This course is recommended for veterans. This course will review several incidents from post-World War II United States military history to critically analyze particular elements of doctrine, strategy, and the political context driving such actions. Students will also review the socio-political impact certain military actions had on American culture. Students actively participate by applying knowledge from select case studies to assess their historical value regarding resolution of current politico-military problems. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement). Spring.

HIS 201. History of United States I. 3 Credits.
This course will focus on United States history with an emphasis on how the country developed from settlements to the society it has today. It will analyze the problems encountered in forming a new republic, westward expansion, and sectional conflicts. The analysis will begin with the pre-Colonial period and continue through the Revolution, the War of 1812, Jacksonian democracy, the rise of political parties, and the social, economic, and political developments that formed the backdrop to the Civil War. The course will also look at how the Europeans and Africans who came to America developed unique American traditions that blended Old World customs into the New World experience. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

HIS 202. History of United States II. 3 Credits.
This course will begin with the Reconstruction and will examine the social, economic, and political issues of the late nineteenth century as the country moved from an agrarian society to an industrialized nation, the emergence of the United States as a world power with World War I, the effects of the Great Depression on society and government, World War II, the Korean War, the Cold War, the Civil Rights Movement, Vietnam, Women's Rights, the War on Terror, and the challenges that America faces as it moves into a new century. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

HIS 240. History Of Ideas. 3 Credits.
In this course, students survey significant ideas in Western culture from ancient times to modern America. Representative figures to be discussed include Plato, Aristotle, Cicero, Aquinas, Machiavelli, Calvin, Hobbes, Locke, Voltaire, Wollstonecraft, Burke, and Marx. Prerequisites: ENG 098, FYE 101, RDG 098, or placement; permission of division dean.

HUMAN SERVICES
The Human Services Department at Mount Wachusett Community College provides students with the opportunity to earn a Human Services Technician Certificate or Associate Degree in Human Services. Upon completion of the program, students are prepared for entry-level positions in a variety of human service settings. During the course of study, students will develop skills and competencies in critical thinking, reasoning and the terminology used in the human services profession. Students will gain knowledge in assessment, advocacy, outreach, referral, and counseling and interview techniques.

HUMAN SERVICES DEGREE (HS)
This program is for those who wish to build a rewarding career helping people in need by empowering, enabling, and facilitating them to function more effectively in all aspects of living. Opportunities in this field are excellent. According to the Bureau of Labor Statistics, the human services sector is one of the fastest growing fields. The Human Services Degree program will prepare you for entry-level positions in social services or for transfer to four-year colleges or universities to pursue human services, psychology, social work, sociology, or other related majors.

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<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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<tr>
<td>HST 101</td>
<td>Introduction To Human Services</td>
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<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>HST 150</td>
<td>Cultural Awareness</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>HST 140</td>
<td>Counseling Methods And Interviewing Techniques</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Psychology Of Self</td>
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<tr>
<td>PSY 240</td>
<td>Abnormal Psychology</td>
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<td>Professional Elective (see list below)</td>
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Year 2

Fall

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<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
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<tr>
<td>PSY 110</td>
<td>Human Growth And Development</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Human Health And Disease (or Lab Science Elective)</td>
<td>3-4</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
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Professional Elective (see list below)

Spring

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POL 211</td>
<td>Introduction to American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 205</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>HST 260</td>
<td>Human Services Seminar (Capstone)</td>
<td>3</td>
</tr>
<tr>
<td>HST 250</td>
<td>Human Services Internship Experience</td>
<td>4</td>
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<tr>
<td>General Elective</td>
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</table>

Total Credits: 61-62

1 Lab Science Electives: 4 credit course in AQS, BIO, BTC, CHE, EAS, EGM, NRD, or PHY
Lab Science recommended for transfer
2 General Electives: See General Electives (p. 357) exceptions.

Professional Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HST 115</td>
<td>Issues of Chemical Dependency in Family Systems</td>
<td>3</td>
</tr>
<tr>
<td>HST 142</td>
<td>Counseling Methods and Interviewing Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>HST 145</td>
<td>Introduction To Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>HST 149</td>
<td>Addictions Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HST 220</td>
<td>Psychopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 244</td>
<td>Children With Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>PSY 246</td>
<td>Psychology And The Law</td>
<td>3</td>
</tr>
<tr>
<td>PSY 280</td>
<td>Psychology Of Death And Dying</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Gender Issues</td>
<td>3</td>
</tr>
<tr>
<td>SOC 129</td>
<td>Drug Use And Abuse In American Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC 204</td>
<td>Sociology of the African American</td>
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<tr>
<td>SOC 206</td>
<td>Marriage And The Family</td>
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<tr>
<td>SOC 208</td>
<td>Juvenile Delinquency</td>
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<tr>
<td>SOC 210</td>
<td>Child Abuse And Neglect In American Society</td>
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<tr>
<td>SOC 212</td>
<td>Victimology</td>
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</table>

See Human Services program student learning outcomes and technical standards.

Student Success Tips

Volunteer opportunities, service learning, and civic engagement components are suggested as ways of enhancing classroom learning. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campuses.

Transfer Options

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.
Special Requirements
Technical standards must be met with or without accommodations. Students seeking to participate in HST 250 Human Services Internship Experience may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, health insurance, liability insurance, a Criminal/Sexual Offender Records Information (CORI/SORI) check, fingerprinting, and drug testing. Some of these may be done at the student’s expense. Students majoring in Human Services and Substance Abuse Counseling Certificate (SACC) can utilize HST 270 Practicum for Substance Abuse Counseling to fulfill the required HST 250 Human Services Internship Experience. However students completing Substance Abuse Counseling Certificate (SACC) must complete HST 270 Practicum for Substance Abuse Counseling.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Human+Services&SearchType=occupation)
HUMAN SERVICES TECHNICIAN CERTIFICATE (HSC)

This program is for those who wish to build a rewarding career helping people in need by empowering, enabling, and facilitating them to function more effectively in all aspects of living. Opportunities in this field are excellent. According to the Bureau of Labor Statistics, human services is one of the fastest growing fields. The Human Services Technician Certificate prepares students for immediate employment in entry-level human services positions. It also provides individuals currently working in entry-level positions an opportunity to enhance their skills.

Year 1

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<tbody>
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<td>ENG 101</td>
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<td>PSY 101</td>
<td>Psychology Of Self</td>
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<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
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<th>Spring</th>
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<tr>
<td>HST 140</td>
<td>Counseling Methods And Interviewing Techniques</td>
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<tr>
<td>Professional Elective (see list below)</td>
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<tr>
<td>HST 150</td>
<td>Cultural Awareness</td>
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<tr>
<td>PSY 240</td>
<td>Abnormal Psychology</td>
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Total Credits: 24

Professional Electives

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<td>HST 142</td>
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<td>PSY 246</td>
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<td>PSY 280</td>
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<td>SOC 125</td>
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<td>SOC 210</td>
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<td>SOC 212</td>
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</table>

See Human Services program student learning outcomes and technical standards.

Student Success Tips

Volunteer opportunities, service learning, and civic engagement components are suggested as ways of enhancing classroom learning. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campuses.

Special Requirements

Technical standards must be met with or without accommodations.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Human Services Degree.
Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=Human+Services&amp;SearchType=occupation)

SUBSTANCE ABUSE COUNSELING CERTIFICATE (SACC)
This program will prepare students for certification as a Certified Alcohol and Drug Counselor (CADC) and/or a Licensed Alcohol Drug Counselor (LADC). As a CADC and/or a LADC, the student will be able to seek employment to help individuals who suffer from the effects of substance abuse. The Substance Abuse Counseling Certificate will address alcohol and drug abuse assessment and counseling, clinical evaluation, treatment planning and case management; as well as patient, family and community education.

The SACC curriculum culminates with a practicum that offers students an opportunity to learn in a work setting, while obtaining practical experience in substance abuse counseling. This experience can be applied to hours needed to qualify for state certification.

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<tr>
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<tr>
<td>HST 140</td>
<td>Counseling Methods And Interviewing Techniques</td>
</tr>
<tr>
<td>HST 149</td>
<td>Addictions Counseling</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology (SOC 103 online is NOT recommended.)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>HST 142</td>
<td>Counseling Methods and Interviewing Techniques II</td>
</tr>
<tr>
<td>HST 220</td>
<td>Psychopharmacology</td>
</tr>
<tr>
<td>HST 270</td>
<td>Practicum for Substance Abuse Counseling</td>
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<td><strong>Total Credits:</strong></td>
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</table>

See Human Services program student learning outcomes and technical standards.

Student Success Tips
Volunteer opportunities, service learning, and civic engagement components are suggested as ways of enhancing classroom learning. Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campuses.

Special Requirements
Technical standards must be met with or without accommodations.

An overall 2.0 GPA is required to graduate with an MWCC Substance Abuse Counseling Certificate. To qualify to take the Licensed Alcohol and Drug Counselor (LADC) or Certified Alcohol and Drug Counselor (CADC) exam, a student will need to maintain a C grade in all SACC program courses.

Students seeking to participate in the Substance Abuse Counseling Certificate program will be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, health insurance, liability insurance, a Criminal/Sexual Offender Records Information (CORI/SORI), fingerprinting, and drug testing. Some of these may be done at the student’s expense.

Students who are pursuing certification as a Certified Alcohol and Drug Counselor (CADC) may take only THREE distance learning (Web based) courses.

HST 270 Practicum for Substance Abuse Counseling requires 300 hours of learning in an approved alcohol/chemical dependency treatment facility. All students who register for HST 270 must attend the mandatory orientation. All students are required to wear business casual attire at practicum sites.

Transfer Options
This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Human Services Degree.
Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=Substance+Abuse&SearchType=occupation&OccID=21-101100&Featured=&CourseSearchSort=&CourseLength=&CourseDepartment=&WageLimit=0&OccSearchSort=&EdLevel=all&Clusters=)
PROGRAM STUDENT LEARNING OUTCOMES FOR HS, HSC AND SACC

Upon graduation from this program, students shall have demonstrated the ability to:

• Demonstrate knowledge of the historical development of human services as a profession and the implications of social policy.
• Demonstrate an understanding of the major models of causation of normal and abnormal development and the conditions which promote or limit optimal functioning.
• Develop and demonstrate effective intervention strategies that include counseling and interviewing skills, assessment, advocacy, outreach, and referral.
• Demonstrate knowledge of the formal and informal supports, resources available in the community, and skill in gaining access to them.
• Demonstrate an awareness of one’s individual strengths, attitudes, values, and belief systems on both a personal and professional level.
• Develop and demonstrate the oral and written skills required for an effective communicator.
• Develop an awareness of cultural diversity and a working knowledge of, and respect for, peoples’ history, traditions, values, and social organizations such as family, community, and political structures.
• Exercise professional ethics in all matters related to the helping relationship and the workplace.

TECHNICAL STANDARDS 1 FOR HS, HSC AND SACC

1 For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Maintain cleanliness and personal grooming consistent with close personal contact.
• Comprehend and respond to the spoken word of all age-specific groups.
• Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.
• React quickly, both mentally and physically.
• Work as a member of a team.
• Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
• Identify behaviors that would endanger a person’s safety and intervene quickly, with an appropriate solution, in a crisis situation.
• Exhibit social skills appropriate to professional interactions.

HST 101. Introduction To Human Services. 3 Credits.
Students are introduced to the organization and function of human service agencies as well as the ways in which the human services worker can deal effectively with the resources of the community. This course also acquaints the student with occupational information in the area of human services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HST 115. Issues of Chemical Dependency in Family Systems. 3 Credits.
This course will introduce students to the significance of the family and external support systems in the maintenance and treatment of chemical dependency. Students will be introduced to the characteristics and dynamics of families, couples, and significant others affected by chemical dependency and/or process addictions. Students will examine basic family theories, assessment, and models of intervention and engagement in the treatment and recovery process. The interaction between the family system and substance use behaviors will also be discussed. Students will analyze the role of self-help groups, their functions, and how they differ from more formal treatment. Prerequisites: ENG 098, RDG 098, FYE 101, or placement. Fall.

HST 140. Counseling Methods And Interviewing Techniques. 3 Credits.
This course acquaints the student with current views of counseling principles and methods. Interviewing techniques are introduced and developed through a workshop approach that includes videotaping. Prerequisite: PSY 105 strongly recommended, may be taken concurrently.

HST 142. Counseling Methods and Interviewing Techniques II. 3 Credits.
This course builds on the foundation of HST 140 Counseling Methods and Interviewing Techniques. Course content includes therapeutic structures, issues that face the beginning counselor, models of therapy, and practical aspects of the work. The class will use
a comprehensive approach that focuses on theoretical perspectives and case studies to enhance the understanding of counseling and interviewing. Prerequisite: HST 140.

**HST 145. Introduction To Gerontology. 3 Credits.**
Students are introduced to the field of gerontology, the multidisciplinary study of the biological, psychological, and social aspects of aging. This course explores the human aging process from these perspectives. A primary focus of this course is to replace myths with facts about aging and gain an understanding about what happens to older adults’ bodies, minds, status in society, and social lives as they age. Attention is also given to programs and services for the elderly. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HST 149. Addictions Counseling. 3 Credits.**
This course provides the student with an overview of substance abuse counseling. Students will develop conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction, assessment strategies, diagnosis and treatment planning, and wellness strategies for facilitating optimal development and preventing clinician burnout. Prerequisites: ENG 098, RDG 098, FYE 101, or placement. Fall.

**HST 150. Cultural Awareness. 3 Credits.**
This course focuses on understanding cultural differences. Students will examine their own culture and other cultures. Students will examine how racism, prejudice, and discrimination are embedded in all levels of society. Students will understand that race and ethnicity are historically, culturally, and socially bound and constructed. Students will examine the privileges that accompany whiteness. Student will examine intersectional research approaches that examine marginalized groups and explore race, ethnicity, gender, age and sexuality and how they are interconnected. This is the same course as SOC 150. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**HST 220. Psychopharmacology. 3 Credits.**
This course introduces the student to the basic principles of pharmacology, anatomy, and physiology. These principles are applied to an examination of the major classes of psychoactive drugs, including those commonly subject to abuse. Students will explore the physical and mental effects of psychoactive drugs and compulsive behaviors. The mechanisms of action in the brain, patterns of physiological response in abuse, dependence, withdrawal and recovery will be discussed. Content will also focus on pharmacological adjuncts to detoxification and treatment, as well as psychotropic medication for co-occurring disorders. Prerequisites: HST 149. Spring.

**HST 250. Human Services Internship Experience. 4 Credits.**
During their last semester, students in this internship work directly with clients under the supervision of a professional worker in a human services setting. Students are expected to gain an understanding of the dynamics and appropriate treatment for clients and their families. Placements have included, but are not limited to, settings involving mental health, developmental disabilities, and community service projects. Students must complete 150 hours in addition to one class meeting per week. A consideration for placement includes an assessment of the student’s readiness and faculty recommendations. The college also requires Criminal Offender Record Information (CORI) and liability insurance for all interns. Prerequisites: QPA 2.0, 45 credits earned toward the Human Services degree including ENG 102, HST 101, HST 140, PSY 110, PSY 240, SOC 103, and permission of department chairperson.

**HST 260. Human Services Seminar (Capstone). 3 Credits.**
In this capstone course, students synthesize and apply concepts and skills learned in the Human Services (HS) program. This course requires students to show mastery of the material covered in the HS program through several required avenues including the following: seminar meetings and discussions; portfolio work; and a research paper. This course is designed to help students apply the knowledge and skills learned in the program and to explore self-perceptions related to their career choice in the human services field. Students must complete this course with a minimum grade of C to graduate. Prerequisites: 45 credits earned toward the Human Services degree including ENG 102, HST 101, HST 140, PSY 105, PSY 110, PSY 240, SOC 103, or permission of division dean. Spring.

**HST 270. Practicum for Substance Abuse Counseling. 6 Credits.**
This course provides a practical, field-based experience of 300 hours in an alcohol/chemical dependency treatment facility as required for Massachusetts Board of Substance Abuse Counselor Certification. The practicum is an integral component of the alcohol and drug addiction counseling program. Academic and applied counseling skills are synthesized and used by students in an addiction counseling setting. Practicum is a vital educational component for future CADCs to learn and practice the 12 Core Functions and 8 Practice Domains of an addiction counselor in a supervised setting. To qualify for the Massachusetts State Test as a LADC or a CADC you will need to maintain a C grade in all SACC program courses. To graduate with a MWCC Substance Abuse Counseling Certificate you will need to maintain a passing grade. Prerequisites: HST 115, HST 140, HST 142 (or corequisite), HST 149, HST 220 (or corequisite); SOC 129. Spring.
The Interdisciplinary Studies Program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Interdisciplinary Studies. Upon completion of this program, students are prepared to enter a variety of careers or transfer to a four-year institution to complete a baccalaureate degree. The Interdisciplinary Studies program offers a student the opportunity to explore many interests while completing a core curriculum used for a career or transfer path. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

INTERDISCIPLINARY STUDIES DEGREE (IDS)

If your career and educational goals are not yet firmly defined, the Interdisciplinary Studies program provides a flexible curriculum allowing you to explore many different disciplines.

**Year 1**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MAT 126 Topics In Mathematics (or higher)</td>
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</tr>
<tr>
<td></td>
<td>Computer Information Systems Elective</td>
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</tr>
<tr>
<td></td>
<td>General Elective 2</td>
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<tr>
<td></td>
<td>General Elective 2</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SPC 113 Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Behavioral Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective 2</td>
<td>3</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Business Elective 4</td>
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<tr>
<td></td>
<td>Non-Behavioral Social Science Elective</td>
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<tr>
<td></td>
<td>Science Elective 6</td>
<td>3-4</td>
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<tr>
<td></td>
<td>General Elective 2</td>
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<table>
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<tr>
<th>Year</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>General Elective 2</td>
<td>3-4</td>
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<tr>
<td></td>
<td>ISC 220 or ENG 290</td>
<td>The Interdisciplinary Capstone (or Advanced Writing and Research)</td>
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<tr>
<td></td>
<td>Humanities Elective</td>
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<tr>
<td></td>
<td>Advanced General Elective 8</td>
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<tr>
<td></td>
<td>Advanced General Elective 8</td>
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</table>

**Total Credits:** 60-62

1. CIS ELECTIVES: CIS 109 Introduction to Programming, CIS 121 Spreadsheet Applications, or CIS 127 Computer Technologies
2. General Electives: See General Electives (p. 357) exceptions.
3. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
5. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
7. Humanities Electives: See Elective Courses by Abbreviation (http://catalog.mwcc.edu/associatedegreesandcertificateandotheroptions/#electivecoursesbyabbreviationtext)
8. An advanced general elective is any 200-level course.

See Interdisciplinary Studies program student learning outcomes and technical standards.
Student Success Tips
Interdisciplinary Studies is an opportunity for students to customize a program of study for transfer to a four-year institution. For example, students who wish to major in a discipline not offered at MWCC (e.g., Sociology or English) may choose IDS. The flexibility allowed in the IDS program is a good way to explore a variety of academic options.

Transfer Options
IDS students interested in transferring should meet with the college's transfer counselor as well as contact their transfer schools of choice. For transfer options, please click here (p. 62).

Special Requirements
Technical standards must be met with or without accommodations.

PROGRAM STUDENT LEARNING OUTCOMES FOR IDS
Upon graduation from this program, students shall have the ability to:

• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
• Formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic through the completion of a research paper.
• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
• Demonstrate a broad exposure and clear understanding of the various disciplines and the proper foundation to pursue a variety of career choices.

TECHNICAL STANDARDS FOR IDS
Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Learn to operate a computer and work at a computer for a minimum of two hours.
• Possess manual dexterity to operate computer devices such as a keyboard and mouse.
• Read data from a computer screen.
• Sit or stand for prolonged periods of time.

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

LEGAL STUDIES
The Legal Studies Program at Mount Wachusett Community College provides students with three distinct opportunities: to earn a Certificate in Paralegal Studies (LAWC), to earn an Associate in Legal Studies (LAW) for immediate career entry, or to graduate and transfer to a baccalaureate program through the Liberal Arts and Sciences Pre-Law Track (LAWT). During the course of study, students will develop competencies in substantive and procedural law, excellent communication skills, and the ability to think analytically and logically.

LEGAL STUDIES DEGREE (LAW)
This degree prepares students for a paralegal position in a legal setting, such as a law office, courthouse, administrative agency, corporate in-house counsel office, or insurance company. Students will learn to gather and analyze facts relevant to legal disputes, perform legal research, draft legal documents, and prepare witnesses and evidence for presentation at legal proceedings. An effective paralegal must have a firm grasp of both substantive and procedural law, excellent communication skills, and the ability to think analytically and logically. This program provides the student with the skills necessary to perform specifically delegated, substantive legal work under the supervision of a lawyer.
### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 101</td>
<td>Introduction To Law (Formerly PLS 101)</td>
<td>3</td>
</tr>
<tr>
<td>LAW 104</td>
<td>Introduction To Family Law (Formerly PLS 104)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>CIS 127</td>
<td>Computer Technologies</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 211</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Restrictive Electives (see list below)</td>
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### Year 2

#### Fall

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>LAW 110</td>
<td>Litigation (Formerly PLS 110)</td>
<td>3</td>
</tr>
<tr>
<td>LAW 250</td>
<td>Legal Research and Writing I (Formerly PLS 250)</td>
<td>4</td>
</tr>
<tr>
<td>LAW 262</td>
<td>Estate Planning (Formerly PLS 262) (or General Elective)</td>
<td>3</td>
</tr>
<tr>
<td>POL 211</td>
<td>Introduction to American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>Health Elective</td>
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<td>2-4</td>
</tr>
</tbody>
</table>

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 106</td>
<td>Introduction To Real Estate Law (Formerly PLS 106)</td>
<td>3</td>
</tr>
<tr>
<td>LAW 270</td>
<td>Legal Studies Seminar (Formerly PLS 270)</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
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<td>3-4</td>
</tr>
<tr>
<td>Restrictive Elective (see list below)</td>
<td></td>
<td>3</td>
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</tbody>
</table>

**Total Credits:** 60-63

2. Health Electives: See Elective Courses by Abbreviation (p. 357).
3. Science Electives: See Elective Courses by Abbreviation (p. 357). A four-credit lab science is strongly recommended for transfer.

### Restrictive Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 101</td>
<td>Principles Of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 102</td>
<td>Principles Of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 224</td>
<td>Taxation</td>
<td>3</td>
</tr>
<tr>
<td>BUS 212</td>
<td>Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>CIS 121</td>
<td>Spreadsheet Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIS 123</td>
<td>Microcomputer Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CIU 133</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CIU 134</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 102</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 106</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 239</td>
<td>Creative Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Creative Writing II</td>
<td>3</td>
</tr>
</tbody>
</table>
See Legal Studies program student learning outcomes and technical standards.

**Student Success Tips**

Students enrolling in the Paralegal Practicum must contact the program coordinator for approval and available options by calling 978-630-9359.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**

Technical standards must be met with or without accommodations.

**Career Options/Earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=paralegal&SearchType=occupation)
PRE-LAW TRACK (LAWT)
A DEGREE IN LIBERAL ARTS AND SCIENCES

LAWT is designed for those students seeking to transfer to a four-year institution in a pre-law curriculum. This track of study is most appropriate for a student desiring to enter law school after earning a bachelor's degree. Strong research, writing and analytical skills, along with substantive legal knowledge, are essential outcomes for students completing this field of study.

Year 1
Fall
LAW 101 Introduction To Law (Formerly PLS 101) 3
BUS 211 Business Law I 3
ENG 101 College Writing I 3
CIS 127 Computer Technologies 3
Lab Science Elective 1

Spring
HIS 121 History Of The Constitution 3
SPC 113 Speech (formerly THE113) 3
Lab Science Elective 1

Year 2
Fall
CJU 134 Criminal Procedure 3
LAW 250 Legal Research and Writing I (Formerly PLS 250) 4
ENG 102 College Writing II 3
MAT 143 Statistics 3
Behavioral Social Science Elective 2

Spring
PHL 110 Logic 3
Literature Elective (see list below) 3
PHL 250 Ethics 3
HIS 105 History Of World Civilization I 3
Humanities Elective 3

Total Credits: 60

1 Lab Science Electives (must be a 4-credit course): See Elective Courses by Abbreviation (p. 357).
2 Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3 Humanities Electives: See Elective Courses by Abbreviation (p. 357). [MWCC LAWT graduates who wish to transfer to Fitchburg State University in order to continue their studies in law are required to complete PHL 201 Introduction To Philosophical Issues as the Humanities Elective.]

Literature Electives

<table>
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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 201</td>
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<tr>
<td>ENG 203</td>
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<tr>
<td>ENG 205</td>
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<td>ENG 213</td>
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<td>ENG 214</td>
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<td>ENG 221</td>
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<td>ENG 224</td>
</tr>
<tr>
<td>ENG 233</td>
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<tr>
<td>ENG 235</td>
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</tbody>
</table>
ENG 236  Modern Drama  3
ENG 237  Special Topics: Queer American Drama  3
ENG 252  Shakespeare and Star Wars: A Study of Tragedy through Drama and Film  3
ENG 259  Literary Masterpieces I  3
ENG 260  Literary Masterpieces II  3
ENG 261  The Short Story  3

See Legal Studies program student learning outcomes and technical standards.

**Transfer Options**
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**
Technical standards must be met with or without accommodations.

**PARALEGAL CERTIFICATE (LAWC)**
Students will learn the fundamental skills necessary for an entry-level position in a legal setting such as a law office, courthouse, administrative agency, corporate in-house counsel office, or insurance company. This certificate introduces students to the paralegal field, to several areas of substantive law, and to the basics of legal analysis and research.

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101  College Writing I</td>
<td>3</td>
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<tr>
<td>CIS 127  Computer Technologies</td>
<td>3</td>
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<tr>
<td>BUS 211  Business Law I</td>
<td>3</td>
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<tr>
<td>LAW 101  Introduction To Law (Formerly PLS 101)</td>
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<tr>
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<td>Restrictive Electives (see list below)</td>
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<tr>
<td>LAW 110  Litigation (Formerly PLS 110)</td>
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<tr>
<td>LAW 250  Legal Research and Writing I (Formerly PLS 250)</td>
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Total Credits: 28

**Restrictive Electives**

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<tr>
<td>LAW (any course)</td>
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<tr>
<td>ACC 101  Principles Of Accounting I</td>
</tr>
<tr>
<td>ACC 102  Principles Of Accounting II</td>
</tr>
<tr>
<td>BUS 212  Business Law II</td>
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<tr>
<td>CIS 121  Spreadsheet Applications</td>
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<tr>
<td>CIS 123  Microcomputer Database Management</td>
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<tr>
<td>CJU 133  Criminal Law</td>
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<td>CJU 134  Criminal Procedure</td>
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<td>ECO 101  Macroeconomics</td>
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<td>ECO 102  Microeconomics</td>
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<tr>
<td>ENG 106  Technical Writing</td>
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<tr>
<td>ENG 239  Creative Writing I</td>
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</table>
ENG 240  Creative Writing II  3
HIS 121  History Of The Constitution  3
MKT 142  Marketing  3
MKT 241  Advertising  3
POL 250  Political Thought In America  3
PSY 246  Psychology And The Law  3

See Legal Studies program student learning outcomes and technical standards.

Student Success Tips
Students enrolling in the Paralegal Practicum must contact the program coordinator for approval and available options by calling 978-630-9359.

Special Requirements
Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareerecoach.com/
#action=loadSearchResults&amp;Search=paralegal&amp;SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR LAW, LAWT AND LAWC

Upon graduation from this program, students shall have the ability to:

- Demonstrate knowledge of substantive and procedural legal principles.
- Perform legal analysis, research, and writing.
- Develop effective communication skills (oral and written).
- Use computer technology as it applies to law.
- Exhibit administrative and employment skills applicable in a law office setting.
- Perform pre-trial tasks including interviewing, client intake, basic investigation, and drafting of pre-trial discovery.
- Draft basic legal documents such as wills, mortgages, and leases.

TECHNICAL STANDARDS ¹ FOR LAWC, LAW AND LAWC

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering into this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information verbally and in a printed format.
- Gather, analyze, and draw conclusions from data.
- Complete forms using a typewriter or similar office machine.
- Input data into a computer.
- Comprehend data from a computer screen, transcribe notes (dictation), and conduct library and Internet research for a minimum of a three-hour period of time.

LAW 101. Introduction To Law (Formerly PLS 101), 3 Credits.
This course introduces students to basic legal concepts, principles, and procedures. It is designed to provide students with an understanding of the structure of the U.S. legal system, including the role of the judicial, legislative, and executive branches; the history of law in the United States; the role of attorneys, paralegals, law enforcement, and other legal professionals; basic categories of law; litigation principles; and alternative dispute resolution. In addition, students will be introduced to a wide variety of ethical standards that apply in the legal community. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.
LAW 104. Introduction To Family Law (Formerly PLS 104). 3 Credits.
This course reviews the substantive and procedural law relative to divorce, adoption, guardianship, custody, and other family law matters within the jurisdiction of the Probate Court. Topics include the legal status of children, legal rights of women, and illegitimacy and paternity proceedings, as well as divorce procedures and child custody and support issues. Students will be introduced to contract law as its principles are specifically applied to ante nuptial agreements, separation agreements, and surrogacy agreements. Related areas of law such as juvenile, criminal, and tort law are also discussed, as are relevant administrative agency regulations. Legal concepts will be applied to particular factual situations, thus developing and enhancing critical skills such as analysis. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 106. Introduction To Real Estate Law (Formerly PLS 106). 3 Credits.
This course familiarizes students with the substantive area of real estate and property law. Fundamental legal principles are discussed in the context of business practices in the real estate industry. Topics include purchase and sales agreements, mortgages, leases, recording, easements, and deeds. The traditional law of property rights is discussed as well as recent developments in statutory and case law. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 110. Litigation (Formerly PLS 110). 3 Credits.
This course introduces students to the law office and the steps and tasks involved in civil litigation, the process in which one person sues another person in a court of law to enforce a right or seek a remedy such as financial compensation. Students will learn the role of the litigation paralegal throughout an entire case. This includes investigation and gathering of facts, discovery, trial support, and judgment enforcement. Study will be made of the procedural rules that facilitate the fair resolution of conflicts and the substantive law that forms the basis of the rights and remedies protected by the civil litigation system. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 220. Insurance Law (Formerly PLS 220). 3 Credits.
This course provides students with an understanding of the fundamental principles and doctrines of insurance law. The course develops general understanding of basic concepts and encourages the critical evaluation of the insurance law rules. Topics include fundamentals of insurance principles and basic legal doctrines. The student will gain an understanding of the public policy interests that influence specific laws, doctrines, or rules. Analysis is performed of court-formulated rules that regulate the relationship between insurers and persons who are applying for insurance, have acquired insurance, or are identified as beneficiaries under a contract of insurance. Particular emphasis is placed on problems presented by insurance for health or medical expenses and motor vehicles. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 230. The Law Of Torts (Formerly PLS 230). 3 Credits.
This course introduces students to the fundamentals of torts law and civil wrongs that have caused harm to person or property. Specific causes of action, elements of torts, and prima facie cases are discussed in the context of the three categories of torts: routine personal injury; high-stakes personal injury; and mass latent-injury. An emphasis will be placed on the development of analytical skills and the application of legal concepts to particular factual situations. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 250. Legal Research and Writing I (Formerly PLS 250). 4 Credits.
This course introduces students to the basics of legal research and writing. Students will learn how to analyze a problem, develop a research strategy, access information using primary and secondary sources, and draft legal documents. A functional approach to research is stressed and emphasis is placed on development of the skills necessary to find and understand case law, statutes, administrative regulations, and constitutional law. Students will be introduced to both the computer-aided research, including the Internet and CD systems, and book-based research. Prerequisite: ENG 101.

LAW 251. Legal Research And Writing II (Formerly PLS 251). 3 Credits.
This course reviews and expands on the basic legal research sources and skill provided in LAW 250 Legal Research and Writing I. Students work specifically with legal research materials such as cases, codes, rules and regulations, and practice effective legal writing by creating legal documents. It provides students with a systematic approach to learning legal analysis, organization, and writing. The process is sequentially structured so that students may concentrate on mastering each necessary skill before proceeding on to another. Students are provided with an opportunity to develop their writing abilities with specific focus on the preparation of briefs, pleadings, and legal documents. Prerequisite: LAW 250.

LAW 262. Estate Planning (Formerly PLS 262). 3 Credits.
This course is an introduction to wills, trusts, and estates. Topics include intestacy, estate administration, estate taxes, and the use of wills and trusts to plan disposition of one's estate. The probate process including the probating of a will, contested proceedings, and administration of an estate is studied. Students will draft associated legal documents such as wills and specialized trusts. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

LAW 265. Paralegal Practicum (Formerly PLS 265). 3 Credits.
Students will be placed in paralegal work environments such as private law firms, courthouses, state and local government agencies, or state and municipal government offices depending on their area of interest. In exchange for credit, students will complete a 120-
hour practicum. Students will participate in a variety of activities normally associated with paralegal employment in the specific field chosen by the student. This typically includes obtaining client intake information, performing litigation support, conducting legal research, and preparing legal documents such as mortgages and deeds. Prerequisites: ENG 101, LAW 250 or permission of division dean.

LAW 270. Legal Studies Seminar (Formerly PLS 270). 3 Credits.
This course is structured to help students integrate knowledge from across the legal studies curriculum in preparation for the transition to working as paralegals or continuing their legal education. Students will integrate and apply knowledge related to substantive and procedural legal topics from an interdisciplinary perspective. Students will integrate and apply knowledge, theory, and understanding developed from their previous coursework in the legal studies program. Students will complete at least one major research and writing project that will require at least one oral class presentation. Prerequisites: BUS 211, ENG 102, LAW 101, LAW 104, LAW 110, LAW 250.

LIBERAL ARTS AND SCIENCES
The Liberal Arts and Sciences Program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. During their course of study, students will develop skills to meet the challenges and demands of a rapidly changing society and to think and write critically in order to contribute to their world. Students gain a strong foundation in humanities, social sciences, math, and natural sciences, which enables them to transfer to competitive four-year colleges/universities.

LIBERAL ARTS AND SCIENCES (LAS)
This program is for those who would like a strong educational background to transfer to a four-year institution or immediately enter professional employment by carefully selecting electives. Students may choose to major in virtually any academic discipline, such as biology, English, history, or physical science. Students are encouraged to discuss majoring in any specific area of study with their academic advisor. LAS students can transfer to many four-year colleges or universities and start as a junior.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>MAT 143 or 163</td>
<td>Statistics or Precalculus (or higher)</td>
</tr>
<tr>
<td>Behavioral Social Science Elective I</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective 2</td>
<td>3-4</td>
</tr>
<tr>
<td>General Elective I 3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
</tr>
<tr>
<td>Humanities Elective 4</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science Elective 7</td>
<td>4</td>
</tr>
<tr>
<td>General Elective II 5</td>
<td>3</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>Behavioral Social Science Elective II 1</td>
<td>3</td>
</tr>
<tr>
<td>Non-behavioral Social Science Elective I 5</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective I 6</td>
<td>3</td>
</tr>
<tr>
<td>World Language or Culturally Diverse Elective I (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>General Elective III 3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 290</td>
<td>Advanced Writing and Research</td>
</tr>
<tr>
<td>Non-behavioral Social Science Elective II 6</td>
<td>3</td>
</tr>
<tr>
<td>World Language or Culturally Diverse Elective II (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective II 6</td>
<td>3</td>
</tr>
<tr>
<td>General Elective IV 3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 61-63
1. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Lab Science Electives and Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
5. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
6. Literature Electives: See Elective Courses by Abbreviation (p. 357).

### World Language Electives or Culturally Diverse Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL - Any American Sign Language course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANT 111</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 252</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 259</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 263</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 133</td>
<td>Hip Hop/Street Dance Foundation</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 236</td>
<td>Modern Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 261</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>FRE - Any French course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 129</td>
<td>World And Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>American Ethnic History</td>
<td>3</td>
</tr>
<tr>
<td>HST 150</td>
<td>Cultural Awareness</td>
<td>3</td>
</tr>
<tr>
<td>HUM 240</td>
<td>Comparative Religion</td>
<td>3</td>
</tr>
<tr>
<td>HUM 260</td>
<td>The Art Of Being Human I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 290</td>
<td>Travel and Study: International Culture, Philosophy, and Arts</td>
<td>3</td>
</tr>
<tr>
<td>MUS 106</td>
<td>History Of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 160</td>
<td>History of Rock and Roll</td>
<td>3</td>
</tr>
<tr>
<td>PHL 180</td>
<td>World Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 201</td>
<td>Introduction To Philosophical Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 210</td>
<td>Levels Of Being</td>
<td>3</td>
</tr>
<tr>
<td>PHL 220</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL 250</td>
<td>Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>
SOC 103  Introduction To Sociology  3
SOC 125  Gender Issues  3
SOC 205  Social Problems  3
SPA - Any Spanish course  3

See Liberal Arts and Sciences program student learning outcomes and technical standards.

Student Success Tips
Eligible LAS students should consider entering MWCC’s Honors Program. Honors Program students benefit from a challenging, highly individualized academic experience, a tuition waiver during their final semester, active recruitment by four-year colleges and universities, and the use of the Honors Center. Also, because of the program’s Commonwealth Honors Program status, all MWCC Honors courses are transferable as Honors courses within the Massachusetts public higher education system; and MWCC graduates are guaranteed acceptance into the Honors Programs of these colleges and universities. See the Honors Program (p. 58) for more information.

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

MASSTransfer
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Special Requirements
Technical standards must be met with or without accommodations.

PROGRAM STUDENT LEARNING OUTCOMES FOR LAS

Upon graduation from this program, students shall have the ability to:

• Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
• Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.
• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

CAPSTONE COURSE FOR LAS

ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.
TECHNICAL STANDARDS \(^1\) FOR LAS

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Work as a member of a team.

MATHEMATICS

The Associate in Science in Mathematics Degree is designed for students who wish to pursue an eventual career in the field of mathematics. Upon transfer to a baccalaureate institution, students will be well prepared for careers as secondary school mathematics instructors, actuaries, mathematicians and statisticians, operations research analysts, or to further with their education at the graduate school level. Students should be aware that entry-level positions within this career require a minimum of a baccalaureate degree.

MATHEMATICS (MATH)

This program is designed to prepare graduates for transfer in mathematics at a baccalaureate institution. Since many of these classes are two-semester sequential courses, it is recommended that students start this program in the fall.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>MAT 211 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 143 Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective (^2)</td>
<td>3</td>
</tr>
<tr>
<td>Science elective 3-4 credit (^1)</td>
<td>3-4</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>MAT 212 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 180 Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Science elective lab 4 credit (^1)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>MAT 220 Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHY 120 Physics for Engineering and Science I</td>
<td>4</td>
</tr>
<tr>
<td>CIS 150 Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>MAT 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MAT 230 Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHY 121 Physics for Engineering and Science II</td>
<td>4</td>
</tr>
<tr>
<td>Social Science Elective (^2)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 62-63

1 For the science electives, students must select two science courses with a minimum of 7 combined credits.

2 Social Science Electives: See Elective Courses by Abbreviation (p. ).

Science Electives (minimum of 7 combined credits)

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 109 Biology I</td>
</tr>
<tr>
<td>BIO 110 Biology II</td>
</tr>
<tr>
<td>Course Code</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>CHE 107</td>
</tr>
<tr>
<td>CHE 108</td>
</tr>
<tr>
<td>EAS 110</td>
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<td>EAS 125</td>
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<td>BIO 101</td>
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<td>BIO 103</td>
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<tr>
<td>BIO 116</td>
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<td>BIO 128</td>
</tr>
<tr>
<td>BIO 152</td>
</tr>
<tr>
<td>BIO 220</td>
</tr>
<tr>
<td>BTC 101</td>
</tr>
<tr>
<td>CHE 120</td>
</tr>
<tr>
<td>EAS 126</td>
</tr>
<tr>
<td>EAS 127</td>
</tr>
<tr>
<td>EAS 115</td>
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</table>

**Philosophy Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 201</td>
<td>Introduction To Philosophical Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHL 209</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHL 250</td>
<td>Ethics</td>
<td>3</td>
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</tbody>
</table>

**Literature Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 213</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 214</td>
<td>American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 220</td>
<td>The Literature of Resistance</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 224</td>
<td>Mystery Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 236</td>
<td>Modern Drama</td>
<td>3</td>
</tr>
</tbody>
</table>

See Mathematics program student learning outcomes and technical standards

**Campus**

The Mathematics Degree is offered on the Gardner campus only.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.
MASSTransfer

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

Program Student Learning Outcomes for Math

Upon graduation from this program, students shall have the ability to:

1. Develop mathematical critical thinking skills that promote mastery of complex mathematical formulations.
2. Display the ability to propose a variety of alternative pathways to the solution of a specific problem.
3. Predict accurate solutions to complex problems in advance of actual calculations in demonstration of previous mathematical learning.
4. Present evidence of proficiency in mathematical reasoning through discussion, seminars, research paper and projects.
5. Recognize mathematical applications in real world problems.
6. Illustrate the process of making real world problems precise.
7. Demonstrate synthesis of mathematical ideas across the curriculum.

Technical Standards for Math

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Read from a computer screen or calculator.
- Operate a computer.
- Perceive, interpret and use data in its entirety from a computer/calculator screen.
- Possess manual dexterity to operate computer devices such as a keyboard and mouse.
- Work at a computer for a minimum of two hours.
- Clearly convey solutions to complex mathematical problems.

For general information about technical standards and accommodation, see Technical Standards. (p. 82)

MAT 092. Foundations of Mathematics. 4 Credits.
This course is designed for students who need remedial instruction in arithmetic and basic Algebra. Topics studied include: whole numbers order of operations, prime factorization, fractions, decimals, percent, rates, ratios, proportions, signed numbers, variables, algebraic expressions, formulas and equations, graphing linear equations, exponents, scientific notation, and an introduction to polynomials. Students must pass the exit exam with a grade of “C” or better and earn an overall average of “C” in the class for successful course completion. Prerequisites: Math placement.

MAT 093. Statway. 1 Credit.
This course is designed for students who need support to succeed in MAT 143. Topics studied include: points and intervals on the number line, the distance between two points on the number line, powers of a number, the square root of a number, summation notation, set notations, Venn diagrams, the union and intersection of sets and the complement of a set, graphing points and lines in two dimensions, understanding slope as the change in y associated with a 1-unit change in x, the equation of a line and the graph of the line, and the vertical distance between a point and a line. This course is required for students who are taking MAT 143 and who successfully completed MAT 092. Prerequisites: MAT 092; MAT 143 (corequisite). A GRADE OF “C” OR HIGHER IS REQUIRED FOR PASSING.

MAT 097. STEMWAY. 2 Credits.
This course completes the developmental math curriculum and prepares students for the credit-bearing course Introduction to Functions & Modeling. Topics include: polynomials and exponents, factoring polynomials and solving equations, rational expressions, radical expressions, quadratic equations and introduction to functions. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR PASSING. Prerequisite: MAT 092.
MAT 126. Topics In Mathematics. 3 Credits.
This course explores a number of important ideas and practical applications in contemporary mathematics. Required topics include: problem solving strategies; measurement and the metric system; set theory; equations and inequalities; graphing and linear functions; consumer applications such as interest, annuities and present value; and basic statistics. Teachers will select one or two additional topics (as time permits), such as, history of math, voting and apportionment, logic, probability, or geometry. This course meets the Quantitative Reasoning requirement. Prerequisite: MAT 092 or placement.

MAT 140. Elements Of Mathematics I. 3 Credits.
This course provides a comprehensive, conceptually-based study of the rational and real number systems, along with fundamental concepts of number theory, in order to develop deep levels of understanding of these concepts. Topics include: numeration systems; algorithms for the addition, subtraction, multiplication and division of whole numbers, integers, fractions, and decimals; factors and multiples; greatest common factor and least common multiple; ratio, percent and scientific notation; rational and irrational numbers. Inquiry based instruction, problem solving skills, project work, and the appropriate use of mathematical models are emphasized. This course is recommended for Early Childhood and Elementary Education majors only. Prerequisite: MAT 092 or placement. No calculators allowed.

MAT 143. Statistics. 3 Credits.
This course presents students with an understanding of elementary statistics by familiarizing them with basic concepts of measures of central tendency and variability, regression and correlation, probability, discrete and continuous random variables, the Central Limit Theorem, confidence intervals, and hypothesis testing. A calculator is required. MAT 093 is required for students taking this course who tested into and successfully completed MAT 092 with a grade of C or better. Prerequisites: MAT 092 or placement; MAT 093 corequisite for students who tested into MAT 092 and successfully complete this course with a C or better.

MAT 162. Introduction to Functions & Modeling (Formerly MAT 134). 4 Credits.
This course provides an introduction to functions, graphing techniques, and modeling. Topics included: visualizing and graphing data, functions and their representations, type of functions and their rates of change, linear functions and equations, quadratic functions and equations, polynomial, rational and radical functions and equations, and introduction to exponential and logarithmic functions. MAT 097 is required for students taking this course who tested into and successfully completed MAT 092 with a grade of C or better. Prerequisite: MAT 126, MAT 143 or higher; or placement; MAT 097 corequisite for students who successfully completed MAT 092 with a C or better and have not completed a college level math.

MAT 163. Pre-Calculus. 4 Credits.
This course is a preparation for MAT 211 Calculus I. Topics include: Mathematical Modeling; Exponential and Logarithmic Functions; Trigonometric Functions; Trigonometric Identities; Laws of Sines and Cosines, Vectors, Polar Coordinates, and Systems of Equations in Two Variables. Computers and/or graphing calculators are used to enhance the study of mathematics. Prerequisite: MAT 162.

MAT 180. Discrete Mathematics. 3 Credits.
This course is an introduction to discrete mathematics with a primary focus on applications for students majoring in Mathematics or Computer Science. Topics covered include logic, elementary number theory, methods of proof, mathematical induction, set theory, combinatorics, functions, recursion, relations, efficiency of algorithms, graphs and trees. Prerequisite: MAT 162 or higher math placement. Spring.

MAT 211. Calculus I. 4 Credits.
This course is an introduction to the concepts and methods of differentiation and their application in the areas of engineering, economics, and life sciences. The following topics are covered: differentiation of polynomial, rational, trigonometric, and composite functions; a study of limits; related rates; optimization problems; curve sketching; antiderivatives; and indefinite integration. Prerequisite: MAT 163 or placement.

MAT 212. Calculus II. 4 Credits.
This course is a continuation of MAT 211 Calculus I with emphasis on the methods of integration and their applications. The following topics are covered: integration of algebraic, trigonometric, inverse trigonometric, logarithmic, and exponential functions; area between two curves; volumes; arc length; work; fluid pressure; Hospital's Rule; Sequences and Series. Prerequisite: MAT 211.

MAT 213. Calculus III. 4 Credits.
A continuation of MAT 212 with emphasis on parametric equations, polar coordinates, vector functions, analytic geometry in space, and multivariable calculus. Topics include: parametric equations, polar coordinates, vectors, dot products and cross products, motion in space, length of curves, planes and surfaces, partial derivatives, max/min problems, Lagrange multipliers, multiple integrals, vector calculus, Green's Theorem, Stokes' Theorem and the Divergence Theorem. A formal project report that incorporates the mathematics of the course will be required in this course as a capstone experience. Prerequisite: MAT 212. Spring.
MAT 220. Linear Algebra. 4 Credits.
This course covers systems of linear equations, Gaussian Elimination, vector equations, linear independence, linear transformations, matrix algebra, inverse of a matrix, subspaces, dimension, rank, determinants, vector spaces and bases, eigenvalues and eigenvectors, The Characteristic Equation, diagonalization, inner product, and orthogonality. The instructor reserves the right to pick applications from the following fields: Computer Science, Engineering, Economics, the Physical Sciences, or Statistics. Prerequisite: MAT 212 (or corequisite). Fall.

MAT 230. Ordinary Differential Equations. 4 Credits.
Differential Equations begins with some definitions and terminology and mathematical models used in a differential equations course. First-order and higher-order differential equations, along with the methods of solutions and their applications are introduced. Modeling with higher-order, Laplace transform, and systems of linear first-order differential equations are covered. At the end, students learn series solutions of linear equations. Numerical methods are covered throughout the course. Prerequisite: MAT 212. Spring.

MEDIA ARTS AND TECHNOLOGY

The Media Arts and Technology Program provides students with the opportunity to earn an Associate Degree in Media Arts and Technology or a Certificate in Photography. Students in the Associate Degree may choose to specialize by pursuing one of three optional concentrations of study: Audio Engineering Concentration (MRTA), Photography Concentration (MRTP), or Video/Film Concentration (MRTV)*. Upon completion of a concentration of a program, students are prepared for careers in video and film production, sound recording, broadcasting, commercial photography, or a number of other communications industries. During the course of study, students develop technical and communications skills through academic coursework, production skills training, and real-world experience.

*Students may graduate with only one concentration.

MEDIA ARTS AND TECHNOLOGY (MRT)

The mission of the Media Arts and Technology department is to offer applied and theoretical instruction for students interested in a career in the media arts. Emphasis is placed on practical training in MWCC’s professionally equipped media facilities, communication skills, and the characteristics of converging media industries. Students gain professional experience participating in a variety of college and community projects.

The flexible program requirements allow students to concentrate in Audio Engineering, Photography, or Video/Film Production; or to design a program of study to meet their individual career and transfer goals.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>MRT 105</td>
<td>Introduction To Mass Media</td>
</tr>
<tr>
<td>Production Elective I (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Production Elective II (see list below)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>MRT 106</td>
<td>Introduction to Human Communication</td>
</tr>
<tr>
<td>Non-behavioral Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Production Elective III (see list below)</td>
<td>3</td>
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<tr>
<td>Professional Elective I (see list below)</td>
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<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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<td>Lab Science Elective</td>
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<td>Behavioral Social Science Elective</td>
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<td>Humanities Elective</td>
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<tr>
<td>Professional Elective II (see list below)</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>MRT 123</td>
<td>Film Studies</td>
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<tr>
<td>MRT 228</td>
<td>Self Promotion and the Business of Media Arts</td>
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<td>Professional Elective III (see list below)</td>
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### Production Electives

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<td>MRT 112</td>
<td>Introduction to Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>MRT 121</td>
<td>TV Studio Operations and Multicamera Production</td>
<td>3</td>
</tr>
<tr>
<td>MRT 122</td>
<td>Fundamentals of Audio Postproduction</td>
<td>3</td>
</tr>
<tr>
<td>MRT 211</td>
<td>Advanced Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>MRT 229</td>
<td>Video Postproduction (Formerly Editing Digital Video)</td>
<td>3</td>
</tr>
<tr>
<td>PHO 115</td>
<td>Introduction To Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO 240</td>
<td>Portrait Photography</td>
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<td>PHO 245</td>
<td>Commercial Photography</td>
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### Professional Electives

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<tr>
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<td>MRT (any course)</td>
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<tr>
<td>PHO (any course)</td>
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<td>ART 109</td>
<td>Art History I</td>
<td>3</td>
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<tr>
<td>ART 110</td>
<td>Art History II</td>
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<td>ART 113</td>
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<tr>
<td>ART 251</td>
<td>Two-Dimensional Design</td>
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<td>ART 263</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>ENG 239</td>
<td>Creative Writing I</td>
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<td>ENG 240</td>
<td>Creative Writing II</td>
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<td>ENG 242</td>
<td>Journalism II: Advancing Newswriting</td>
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<td>ENG 245</td>
<td>Film Appreciation</td>
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<tr>
<td>GID 101</td>
<td>Design Theory (Formerly CGD 101)</td>
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<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
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<tr>
<td>GID 109</td>
<td>Introduction To Web Design (Formerly CGD 240)</td>
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<tr>
<td>GID 177</td>
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<td>Course Code</td>
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<td>MKT 142</td>
<td>Marketing</td>
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<td>MKT 143</td>
<td>Retail Management</td>
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<tr>
<td>MUS 103</td>
<td>Music Skills And Theory I</td>
<td>3</td>
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<tr>
<td>MUS 104</td>
<td>Music Skills And Theory II</td>
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<tr>
<td>MUS 110</td>
<td>Music Appreciation (Formerly MUS210)</td>
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<tr>
<td>THE 101</td>
<td>Fundamentals Of Acting</td>
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<td>THE 103</td>
<td>Introduction To Theatre</td>
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<tr>
<td>THE 184</td>
<td>Technical Theatre Practicum I (Formerly THE284)</td>
<td>3</td>
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<tr>
<td>THE 185</td>
<td>Technical Theatre Practicum II (Formerly THE 285)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Campus**
This program is offered on the Gardner campus only.

**Transfer Options**
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**
Technical standards must be met with or without accommodations.

The Media Arts & Technology Department does not offer any student the following:

- Special classes.
- A reduced standard for academic performance.
- Exemption to graduation requirements.
- Credit for effort in place of demonstrated competence or skill acquisition.

**Career Options/Earning Potential**
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=Media+Arts+and+Technology&amp;SearchType=occupation)
AUDIO ENGINEERING CONCENTRATION (MRTA)

A Degree in Media Arts and Technology

Courses in the Audio Engineering Concentration focus on skills necessary to pursue positions in professional sound engineering. Through hands-on training, specialized classroom study, and research, students receive training in all aspects of the industry. Graduates can explore careers in music, radio, television, cinema, gaming, and theatre.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher) 3</td>
</tr>
<tr>
<td>MRT 112</td>
<td>Introduction to Audio Production 1</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I 3</td>
</tr>
<tr>
<td>MRT 110</td>
<td>Fundamentals of Video Production 3</td>
</tr>
<tr>
<td>MRT 105</td>
<td>Introduction To Mass Media 3</td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II 3</td>
</tr>
<tr>
<td>MRT 122</td>
<td>Fundamentals of Audio Postproduction 1 3</td>
</tr>
<tr>
<td>MRT 106</td>
<td>Introduction to Human Communication 3</td>
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</table>

Behavioral Social Science Elective 2
Non-behavioral Social Science Elective 3

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>MRT 211</td>
<td>Advanced Audio Production 1 3</td>
</tr>
<tr>
<td>MRT 217</td>
<td>Critical Listening for Audio Engineers 1 3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113) 3</td>
</tr>
<tr>
<td>MUS 103</td>
<td>Music Skills And Theory I 3</td>
</tr>
<tr>
<td>Lab Science Elective 4</td>
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<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>MRT 228</td>
<td>Self Promotion and the Business of Media Arts 3</td>
</tr>
<tr>
<td>MRT 224</td>
<td>Music Recording and Mixing Techniques 1 3</td>
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<tr>
<td>MRT 123</td>
<td>Film Studies 3</td>
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<tr>
<td>Business Elective 5</td>
<td>3</td>
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<td>General Elective 6</td>
<td>2-3</td>
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</table>

Total Credits: 60-61

1. Students enrolled in MRTA must earn a grade of C or better in this course.
2. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
5. Business Electives: See Elective Courses by Abbreviation (p. 357).

Campus
This program is offered on the Gardner campus only.

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements
Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=audio+engineering&amp;SearchType=occupation)
PHOTOGRAPHY CONCENTRATION (MRTP)

A Degree in Media and Arts Technology

This is a program that concentrates on the necessary skills for students to enter the field of professional digital photography. Today’s photographer is artistic, technically and technologically skilled, and business savvy. Photography Concentration degree holders can explore careers in studio/portrait photography, commercial photography, photojournalism, and digital imaging.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PHO 115</td>
<td>Introduction To Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
<td>3</td>
</tr>
<tr>
<td>MRT 105</td>
<td>Introduction To Mass Media</td>
<td>3</td>
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#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>PHO 245</td>
<td>Commercial Photography</td>
<td>3</td>
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<tr>
<td>MGT 110</td>
<td>Introduction to Business</td>
<td>3</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>Non-behavioral Social Science Elective</td>
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### Year 2

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PHO 240</td>
<td>Portrait Photography</td>
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<td>PHO 215</td>
<td>Advanced Digital Photography</td>
<td>3</td>
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<tr>
<td>Lab Science Elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MRT 106</td>
<td>Introduction to Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>MRT 123</td>
<td>Film Studies</td>
<td>3</td>
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#### Spring

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MRT 228</td>
<td>Self Promotion and the Business of Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>MRT 110</td>
<td>Fundamentals of Video Production</td>
<td>3</td>
</tr>
<tr>
<td>MKT 142</td>
<td>Marketing</td>
<td>3</td>
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<tr>
<td>Behavioral Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>2-3</td>
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</tbody>
</table>

**Total Credits:** 60-61

1. Students enrolled in MRTP must earn a grade of C or better in this course.
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
3. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
5. MRT 110 is offered Days only in Fall and Nights only in Spring.

**Campus**

This program is offered on the Gardner campus only.

**Student Success Tips**

Students should have a computer with Photoshop or Photoshop Elements at home with Internet access. Students must spend additional time outside of class completing assignments.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**Special Requirements**

Students must have a digital camera with complete manual focus and exposure control (preferably a digital SLR). Students should also have a tripod. Technical standards must be met with or without accommodations.
Career Options/Earning Potential
For career options, please click here (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=photographer&SearchType=occupation).

VIDEO/FILM CONCENTRATION (MRTV)
A Degree in Media Arts and Technology
Students specifically interested in careers in video, television, filmmaking, or related industries may elect to complete this course of study. Students experience all aspects of preproduction, studio and location recording, and postproduction editing. Instruction includes extensive hands-on experience. Throughout the production process, emphasis is placed on efficient message design, effective storytelling techniques, and thorough preproduction planning.

Year 1
Fall
MAT 126 Topics In Mathematics (or higher) 3
MRT 110 Fundamentals of Video Production 1 3
ENG 101 College Writing I 3
MRT 112 Introduction to Audio Production 3
MRT 105 Introduction To Mass Media 3
Spring
ENG 102 College Writing II 3
MRT 121 TV Studio Operations and Multicamera Production 1 3
MRT 122 Fundamentals of Audio Postproduction 1 3
MRT 106 Introduction to Human Communication 3
Non-behavioral Social Science Elective 2 3

Year 2
Fall
MRT 229 Video Postproduction (Formerly Editing Digital Video) 1 3
MRT 123 Film Studies 3
SPC 113 Speech (formerly THE113) 3
MKT 241 Advertising 3
Lab Science Elective 3 4
Spring
MRT 216 Digital Cinematography 1 3
MRT 208 Writing For Visual Media (Formerly Scriptwriting) 1 3
MRT 228 Self Promotion and the Business of Media Arts 3
Behavioral Social Science Elective 4 3
General Elective 5 2-3

Total Credits: 60-61

1. Students enrolled in MRTV must earn a grade of C or better in this course.
2. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
5. General Electives: See General Electives (p. 357) exceptions.

Campus
This program is offered on the Gardner campus only.

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements
Technical standards must be met with or without accommodations.
### Career Options/Earning Potential
For career options, please click here. ([https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=video+film&amp;SearchType=occupation](https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=video+film&SearchType=occupation))

### PHOTOGRAPHY -- PROFESSIONAL CERTIFICATE (PHO)
This is a program that concentrates on the necessary skills for students to enter the field of professional digital photography. Today’s photographer is artistic, technically and technologically skilled, and business savvy. Photography -- Professional Certificate holders can explore careers in studio/portrait photography, commercial photography, photojournalism, and digital imaging. They may also continue their educations to obtain associate degrees.

#### Year 1

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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<tr>
<td>PHO 115</td>
<td>Introduction To Digital Photography</td>
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<tr>
<td>PHO 240</td>
<td>Portrait Photography</td>
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<tr>
<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
<td>3</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Introduction to Business</td>
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<tr>
<td></td>
<td>Spring</td>
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<tr>
<td>PHO 215</td>
<td>Advanced Digital Photography</td>
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<td>PHO 245</td>
<td>Commercial Photography</td>
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<td>MKT 142</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MRT 110</td>
<td>Fundamentals of Video Production</td>
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</tbody>
</table>

Total Credits: 27

1. Students enrolled in PHO must earn a grade of C or better in this course.
2. MRT 110 is offered Days only in Fall and Nights only in Spring.

### Campus
This program is offered on the Gardner campus only.

### Student Success Tips
Students should have a computer with Photoshop or Photoshop Elements at home with Internet access. Students must spend additional time outside of class completing assignments.

### Special Requirements
Students must have a digital camera with complete manual focus and exposure control (preferably a digital SLR). Students should also have a tripod.

Technical standards must be met with or without accommodations.

### Career Options/Earning Potential
For career options, please click here. ([https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=photographer&amp;SearchType=occupation](https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=photographer&SearchType=occupation))

### PROGRAM STUDENT LEARNING OUTCOMES FOR MRT, MRTA, MRTP, MRTV, PHO
Upon graduation from this program, students shall have demonstrated the ability to:

- Analyze and describe the component sectors, interrelationships, technology, and the legal and business practices associated with the media arts, and apply this understanding to projections for future developments and opportunities.
- Explain, analyze, and evaluate the media’s power and role in and on today’s society, and the legal and ethical issues that confront communications professionals.
- Set up and operate production equipment, and explain working interrelationships of the technical components.
- Demonstrate oral and written presentation skills unique to the media arts industry.
- Specify and design media solutions to fulfill identified communications objectives.
- Work individually and as part of a production team in developing communications projects from initial conception to final completion, while meeting industry-standardized guidelines.
• Employ media aesthetics to maximize communications effectiveness and create audience interest.
• Analyze career opportunities and individual strengths, apply effective job search and acquisition skills, and promote their professional skills and services in today’s marketplace.

In addition, students concentrating in Audio Engineering (MRTA) shall have proven:

• A clear command of microphone – choice, placement, technique, and treatment for varying tasks.
• Awareness of advanced audio signal paths, processing needs, and choice of processing order to acquire desired results.
• An ability to recognize through listening, the causes of quality in electronically handled sounds, with appreciation for what contributes to professional results and knowledge of remedies for improving what is poor.
• An understanding of technically assisted communication that compels a listener to embrace a message, story or song.

In addition, students concentrating in Photography (MRTP) shall have proven:

• A command of the creative and effective use of lenses, apertures, and shutter speeds.
• Mastery of the techniques for controlling the use of natural and artificial light.
• An understanding of the different output demands of specific industry segments.
• The ability to quickly and efficiently capture and initially edit raw and jpeg photos.

In addition, students concentrating in Video/Film (MRTV) shall have proven:

• An understanding and critical appreciation of the history, theory, and technique common to effective film and video production.
• Mastery of advanced camera, lighting, editing and directing skills, and postproduction workflows.
• The ability to integrate strong technical expertise, knowledge of communication theory, and creative storytelling technique to produce visually compelling production.
**TECHNICAL STANDARDS**

1. For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Distinguish the movement of meter displays, positions of knobs on equipment, and images through camera lenses and/or small camera screens.
- Differentiate content, tones, and words in sound recordings.
- Work as a member of a production team.
- Function as production manager, including decision making and scheduling.
- Appropriately use production equipment with or without accommodations.

**TECHNICAL STANDARDS**

2. For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Read and proof printed text from a computer screen, with or without corrective adaptive devices.
- Compose and focus a digital photograph with or without corrective adaptive devices.
- Exhibit social skills appropriate to professional interactions.
- Perceive, interpret, and use graphic images in their entirety from a computer screen.

**INDUSTRY STANDARDS**

Jobs within the various media industries require a wide range of physical and mental capacity for career success. Students seeking employment within these industries should review the following information carefully when deciding to engage in this course of study.

**Tasks**

Most jobs in media production require the following:

- Recording speech, music, or other sound on various types of equipment.
- Quickly setting up and taking down equipment used in recording, via audio/video/film, in studios or on location, of scripted, produced, or live performances.
- Loading and unloading equipment that may be in excess of 50 lbs. in/from storage rooms, vans, or production trucks.
- Quickly choosing most appropriate equipment (e.g. microphones, lenses, lights, stands).
- Carrying, connecting, tracing, and coiling various cables.
- Documenting equipment settings, content, and technical notes.
- Efficiently using specialized electronic equipment during production and post production.
- Troubleshooting and resolving issues with signal flow and software.

**Skills**
Careers in the Media Arts typically demand the following skills:

- **Active Listening** - Giving full attention to what other people are saying, taking time to understand the points being made and asking questions for clarification as appropriate.

- **Speaking** - Talking to others to convey information effectively.

- **Critical Thinking** - Using logic and reasoning to identify alternative solutions, conclusions, and approaches to problems.

- **Reading Comprehension** - Understanding written sentences and paragraphs in work-related documents, production documentation, and equipment manuals.

- **Complex Problem Solving** - Identifying complex problems and reviewing all necessary information to develop and evaluate options and implement solutions.

- **Active Learning** - Understanding the implications of new information for both current and future problem-solving, troubleshooting, and decision making.

- **Operation and Control** - Controlling operations of equipment or systems.

- **Troubleshooting** - Determining causes of operating errors and deciding what to do about it.

- **Equipment Selection** - Determining the kind of tools and equipment are needed to complete a job safely and efficiently.

**Students with disabilities**

MWCC's Media Arts & Technology program will comply with Section 504 of the Rehabilitation Act of 1973 and Title III of the Americans with Disabilities Act of 1990. The mission of the department is to train individuals for technical and/or non technical entry-level positions within various media industries. Mount Wachusett Community College’s ADA Policy outlines accommodations available to students with disabilities. It is strongly recommended that prior to investing time and monetary resources, a prospective student with a known disability meet with the Coordinator of Disability Services to discuss their potential for success in the Media Arts Industries.

Persons with disabilities in any of the following areas are urged to speak to the Coordinator of Disability Services about these before entering this course of study:

- **Near Vision** - The ability to see details at a close range (e.g. reading dial or meter settings on production equipment and camera screens).

- **Oral Expression** - The ability to communicate information and ideas in speaking so others will understand.

- **Oral Comprehension** - The ability to listen and understand information and ideas presented through spoken words and sentences.

- **Written Expression** - The ability to communicate and ideas in writing so others can understand (e.g. production documentation).

- **Hearing Sensitivity** - The ability to detect or tell the differences between sounds that vary in pitch and loudness.

- **Information Ordering** - The ability to arrange things or actions in a certain order or pattern (e.g. signal flow, color coding).

- **Selective Attention** - The ability to focus on a single source of sound in the presence of other distracting sounds.

- **Sound Localization** - The ability to tell the direction from which a sound originated.

- **Deductive Reasoning** - The ability to apply general rules to specific problems to produce answers that make sense.

- **Finger Dexterity** - The ability to make precisely coordinated movements of the fingers to grasp, move, manipulate, or assemble small objects (e.g. connecting wires, cables, and adjusting small buttons and knobs).

- **Time Sharing** - The ability to shift back and forth between two or more activities or sources of information.

- **Memorization** - The ability to remember information such as words, numbers, and procedures.
MRT 105. Introduction To Mass Media (Formerly BCT 105). 3 Credits.
Students examine the effects and impact of the mass media on contemporary life. Emphasis is on the influence of television, film, radio, Internet, and print media in such areas as entertainment, news, politics, advertising, popular culture, and human behavior. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 106. Introduction to Human Communication. 3 Credits.
The course introduces students to key concepts, perspectives, research fields, and methods in the study of human communication. Weekly content balances theoretical approaches and practical skill development. The role of the individual and the influence of society in communication processes are discussed. Prerequisite: ENG 098, FYE 101, RDG 098, or placement.

MRT 110. Fundamentals of Video Production. 3 Credits.
Students are introduced to the basics of video recording and editing. Instruction focuses on developing the pre-production, production, and post production expertise required to successfully plan and execute video programs. An overview of video technology is included. MRTV students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 112. Introduction to Audio Production. 3 Credits.
Students are introduced to the basic procedures and skills used by audio professionals. In order to achieve a basic understanding of sound as it relates to media productions, students perform recording and editing techniques of dialog, radio style production, as well as studio and location sound practices used for video and film. Two hours lecture and two lab hours per week. MRTA students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 121. TV Studio Operations and Multicamera Production. 3 Credits.
This course encompasses the processes, equipment, facilities, and skills employed in television studio and multicamera production. Emphasis is placed on the operation of cameras, switchers and related equipment, the responsibilities of the production crew, and the direction of live-switched, multicamera production. MRTV students must earn a C or better in the course. Prerequisite: MRT 110. Fall. MRT 122. Fundamentals of Audio Postproduction. 3 Credits.
Students are introduced to equipment, procedures, and techniques used on location and in studios for careers in audio for the television and film industries, with an emphasis on post production signal processing and editing. This course builds on the information and skills acquired in MRT 112 Introduction to Audio Production. Two hours lecture and two hours lab per week. MRTA and MRTV students must earn a C or better in the course. Prerequisites: MRT 112. Spring.

MRT 123. Film Studies. 3 Credits.
The course introduces students to key concepts of film analysis and production, including film narration, language, technology, history, genres, styles, and issues of gender, ethnicity, and identity. American and global cinemas will be discussed. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 202. Media Arts & Technology Internship I. 3 Credits.
In this course, students earn academic credit while gaining on-the-job experience and training at a broadcast operation or other electronic media-related facility. The student's performance is evaluated by the instructor and the employer. The student will participate in periodic seminars with the course coordinator, and must prepare a detailed account of the internship at the end of the semester. Offered occasionally. Prerequisites: Minimum of 21 college-level credit hours completed.

MRT 208. Writing For Visual Media (Formerly Scriptwriting). 3 Credits.
Students are introduced to various forms of writing for mass media, including but not limited to writing for print, broadcast, and visual production. During the course of the semester, students will produce appropriately formatted scripts for their portfolios. MRTV students must earn a C or better in the course. Prerequisites: ENG 101; Students enrolled in MRTV should also take recommended corequisite MRT 216. Spring.

MRT 211. Advanced Audio Production. 3 Credits.
This course builds on information and skills acquired in MRT 112 and MRT 122. Students gain competency with configurations of complex audio systems, matrixes of multibus mixers, digital mixers, advanced techniques in dialog recording, tone shaping, and music editing. Foley work, sweetening, and mixing for picture are major parts of this course. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 216. Digital Cinematography. 3 Credits.
Students employ production skills acquired in previous classes to effectively craft creative and compelling visual stories and movies. In this course students combine the aesthetics, concepts, and techniques filmmakers have practiced since the days of silent films with contemporary digital technology to create films that will effectively inform, entertain, or persuade today's discerning audiences. MRTV students must earn a C or better in the course. Prerequisites: MRT 229; Students enrolled in MRTV should also take recommended corequisite MRT 208. Spring.
MRT 217. Critical Listening for Audio Engineers. 3 Credits.
This course focuses on awareness of sound. Ear training and auditory recognition are developed through directed listening tasks, discussions, and research. Topics include types of listening, listening environments, sound systems and devices, eras in sound, including equipment and technique, with analytical study of sound engineers’ choices in broadcast, cinematic and musical genres. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 223. Independent Study In Media and Electronic Arts. 3 Credits.
This course is an advanced practicum experience in which the individual student, under the guidance of a staff member, develops his/her broadcast telecommunications skills at a professional level. Prerequisite: Permission of division dean. Offered occasionally.

MRT 224. Music Recording and Mixing Techniques. 3 Credits.
This course is the culmination of audio training at MWCC. Students are trained in methods of both recording and mixing music. Sonic spaces, microphone choice and placement, equipment preference and sequence, technical and personal etiquette in recording musical performances involving audiences, stages, or studios - are all practiced in hands-on training in small to large production crews. Mix training utilizes class recordings of live musicians and other prerecorded material. Students mix projects from start to finish, and assist or complete professional-level mixes with the instructor. Training in mastering is applied to an audio portfolio of the student’s best to work to date. MRTA students must earn a C or better in the course. Prerequisite: MRT 211. Spring.

MRT 228. Self Promotion and the Business of Media Arts. 3 Credits.
This course prepares students to advance their careers in the media arts. Students learn to use social media and personal and industry websites to market themselves to employers and clients. Effective job searching, proposal writing, and resume development are covered. Freelancing, small business operations, and professional/ethical responsibilities are emphasized. Students research legal issues such as copyright and trademarks, contracts and tax structures that impact on the media professional. Offered as independent study by permission of division dean for night students. Prerequisite: ENG 102. Spring.

MRT 229. Video Postproduction (Formerly Editing Digital Video). 3 Credits.
Building on their knowledge of video production, students will develop expertise in the technology and techniques of digital, nonlinear editing. This course introduces the fundamental concepts, terminology, and operation of nonlinear editing systems. Throughout the course, students develop an understanding of the techniques and aesthetics video and film editors employ as effective storytellers. Using industry standard, nonlinear editing systems, students practice applying the craft of editing, assembling sequences of pictures and sounds to create finished programs including titles, graphics, and special effects. MRTV students must earn a C or better in the course. Prerequisite: MRT 110. Fall.

PHO 115. Introduction To Digital Photography. 3 Credits.
This introductory course covers the technical and artistic aspects of capturing and editing digital images. Students will learn how to create artistic images for print and electronic distribution. Emphasis is placed on the camera and how to use it, lighting, electronic capture and manipulation techniques, and photographic composition. Basic computer skills are required: Ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. PHO and MRTP students must earn a C or better in the course. Prerequisites: ENG 098, RDG 098 or placement.

PHO 215. Advanced Digital Photography. 3 Credits.
This course is designed to go beyond the basic skills learned in PHO 115 Intro to Digital Photography. It is designed to allow students to reach a new level of artistic achievement. Students will learn to maximize the strengths and minimize the weaknesses of this medium. The course incorporates use of the latest tools and techniques of digital capture and manipulation. It also uses some traditional film techniques that are modified slightly to apply to a digital environment. A fully adjustable digital camera is required. Point and shoot cameras, and cell phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Prerequisite: PHO 115.

PHO 240. Portrait Photography. 3 Credits.
The art of photographing people is explored. Lighting, posing, and composition are covered. Various styles of portraiture are introduced. These include corporate portraits, casual and personality portraits, and wedding portraits; as well as more avant-garde styles such as film noire. Studio, location, and natural lighting will be used. Color balancing and facial retouching will be covered. A fully adjustable digital camera is required. Point and shoot cameras, and cell phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Fall.

PHO 245. Commercial Photography. 3 Credits.
Some of the world’s most artistic photos are made for the purpose of advertising. This exciting area of photography will be explored. In addition to small product and catalogue photography, this course explores the more complex and creative photographs used for various publication covers, web and magazine ads, and trade show displays. Advanced digital editing and manipulation will be discussed. Estimating and billing will also be covered. A fully adjustable digital camera is required. Point and shoot cameras, and cell
phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Prerequisite: PHO 115. Spring.

MEDIA COMMUNICATIONS

The Media Communications Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of this program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The Media Communications Track offers a student the opportunity to explore communications and media production, while completing a core curriculum used for transfer that meets the MassTransfer requirements for a program in Communications.

MEDIA COMMUNICATIONS TRACK (LAMC)

A DEGREE IN LIBERAL ARTS AND SCIENCES

This program is for those who want a strong background in Communications and Media Studies, and plan to transfer to a four-year college or university to pursue a degree in Communications. With a bachelor’s degree in communications, students may pursue a career in Public Relations, Marketing, Advertising, Journalism, Politics, Education, Social Services, Human Services, Business, International Relations, and Negotiation. Students seeking careers in media production should instead choose one of our Media Arts & Technology degree paths which train toward careers in Audio Production, Video, Cinema, Gaming, Technical Theater, and Photography.

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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</tr>
<tr>
<td>MAT 143</td>
<td>Statistics (or higher)</td>
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<tr>
<td>MRT 105</td>
<td>Introduction To Mass Media</td>
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<td>MRT 106</td>
<td>Introduction to Human Communication</td>
<td>3</td>
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<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
<td>3</td>
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<td><strong>Spring</strong></td>
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<td>ENG 102</td>
<td>College Writing II</td>
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<td>MRT 123</td>
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<td>MKT 241</td>
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<td>SPC 113</td>
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<td><strong>Fall</strong></td>
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<tr>
<td>ENG 251</td>
<td>Introduction To Public Relations</td>
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<td>MRT 112</td>
<td>Introduction to Audio Production</td>
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<td>MRT 110</td>
<td>Fundamentals of Video Production</td>
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<td>Behavioral Social Science Elective</td>
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<tr>
<td>Lab Science Elective</td>
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<td><strong>Spring</strong></td>
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<td>MRT 228</td>
<td>Self Promotion and the Business of Media Arts</td>
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<td>ENG 241</td>
<td>Journalism I: Media Writing</td>
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<tr>
<td>Culturally Diverse Literature Elective</td>
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<tr>
<td>Science Elective</td>
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<tr>
<td>Professional Elective (see list below)</td>
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| Total Credits: | 61 |

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1. Non-behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
2. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
4. Science Electives: See Elective Courses by Abbreviation (p. 357).
### Culturally Diverse Literature Electives

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<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
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<td>ENG 236</td>
<td>Modern Drama</td>
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<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
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<td>ENG 261</td>
<td>The Short Story</td>
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### Professional Electives

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<tr>
<td>ENG 106</td>
<td>Technical Writing</td>
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<td>Creative Writing I</td>
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<tr>
<td>ENG 240</td>
<td>Creative Writing II</td>
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</tr>
<tr>
<td>ENG 242</td>
<td>Journalism II: Advancing Newswriting</td>
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<td>GID 104</td>
<td>Digital Imaging (Photoshop) (Formerly CGD 104)</td>
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<td>HRM 102</td>
<td>Introduction to Hospitality Management</td>
<td>3</td>
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<tr>
<td>HST 101</td>
<td>Introduction To Human Services</td>
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<td>HST 150</td>
<td>Cultural Awareness</td>
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<td>TV Studio Operations and Multicamera Production</td>
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<td>MRT 122</td>
<td>Fundamentals of Audio Postproduction</td>
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<td>MRT 208</td>
<td>Writing For Visual Media (Formerly Scriptwriting)</td>
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<td>PHL 110</td>
<td>Logic</td>
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<td>PSY 105</td>
<td>Introduction To Psychology</td>
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<td>PSY 143</td>
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<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Gender Issues</td>
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### Student Success Tips

MWCC has unique production opportunities that are not available anywhere else. Students should be aware, however, that production courses are known to have difficulty transferring regardless of the institution at which they are taken. It is recommended that students consult with program faculty and an academic advisor to choose the production courses that best suit their needs and interests.

### Transfer Options

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.
MASSTransfer
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

PROGRAM STUDENT LEARNING OUTCOMES FOR LAMC
Upon graduation from this program, students shall have the ability to:

• Evaluate the media’s power and role in society, and the legal and ethical issues that confront communications professionals.

• Analytically consider communication concepts, perspectives, methods and theories.

• Value through fundamental studies, media skills in writing, business, promotion, production, and distribution.

• Methodically promote themselves in a professional manner.

• Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.

• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.

• Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.

• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.

• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.

• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.

• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

TECHNICAL STANDARDS FOR LAMC
Students entering this program should be able to:

• Comprehend textbook material at the 11th grade level.

• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.

• Gather, analyze, and draw conclusions from data.

• Distinguish the movement of meter displays, positions of knobs on equipment, and images through camera lenses and/or small camera screens.

• Differentiate content, tones, and words in sound recordings.

• Work as a member of a team.

• Appropriately use production equipment with or without accommodations.

Jobs within the various Media / Communications industries require a wide range of physical and mental capacity for career success. Students seeking employment within these industries should review the following information carefully when deciding to engage in this course of study.

Skills
Careers in Media / Communications typically demand the following skills:
Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made and asking questions for clarification as appropriate.

Speaking - Talking to others to convey information effectively.

Critical Thinking - Using logic and reasoning to identify alternative solutions, conclusions, and approaches to problems.

Reading Comprehension - Understanding written sentences and paragraphs in work related documents, production documentation, and equipment manuals.

Complex Problem Solving - Identifying complex problems and reviewing all necessary information to develop and evaluate options and implement solutions.

Active Learning - Understanding the implications of new information for both current and future problem-solving, troubleshooting, and decision making.

Operation and Control - Controlling operations of equipment or systems.

Troubleshooting - Determining causes of operating errors and deciding what to do about it.

Equipment Selection - Determining the kind of tools and equipment needed to complete a job safely and efficiently.

The Media Arts and Technology Department does not offer any students special classes, a reduced standard for academic performance, exemptions to graduation requirements, or credit for effort in place of demonstrated competence or skill acquisition.

MWCC will comply with Section 504 of the Rehabilitation Act of 1973 and Title III of the Americans with Disabilities Act of 1990. The mission of the department is to train individuals for technical and/or non technical entry-level positions within various media industries. MWCC's ADA Policy outlines accommodations available to students with disabilities. It is strongly recommended that prior to investing time and monetary resources, a prospective student with a known disability contact Admissions to discuss potential for success in the media arts industries.

Persons with disabilities in any of the following areas are urged to speak with Admissions before entering this course of study:

- **Near Vision** - The ability to see details at a close range (e.g. reading dial or meter settings on production equipment and camera screens)

- **Oral Expression** - The ability to communicate information and ideas in speaking so others will understand.

- **Oral Comprehension** - The ability to listen and understand information and ideas presented through spoken words and sentences.

- **Written Expression** - The ability to communicate ideas in writing so others can understand (e.g. production documentation)

- **Hearing Sensitivity** - The ability to detect or tell the differences between sounds that vary in pitch and loudness.

- **Information Ordering** - The ability to arrange things or actions in a certain order or pattern (e.g. signal flow, color coding)

- **Selective Attention** - The ability to focus on a single source of sound in the presence of other distracting sounds.

- **Sound Localization** - The ability to tell the direction from which a sound originated.

- **Deductive Reasoning** - The ability to apply general rules to specific problems to produce answers that make sense.

- **Finger Dexterity** - The ability to make precisely coordinated movements of the fingers to grasp, move, manipulate, or assemble small objects. (e.g. connecting wires, cables, and adjusting small buttons and knobs)

- **Time Sharing** - The ability to shift back and forth between two or more activities or sources of information.

- **Memorization** - The ability to remember information such as words, numbers, and procedures.
MRT 105. Introduction To Mass Media (Formerly BCT 105). 3 Credits.  
Students examine the effects and impact of the mass media on contemporary life. Emphasis is on the influence of television, film, radio, Internet, and print media in such areas as entertainment, news, politics, advertising, popular culture, and human behavior. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 106. Introduction to Human Communication. 3 Credits.  
The course introduces students to key concepts, perspectives, research fields, and methods in the study of human communication. Weekly content balances theoretical approaches and practical skill development. The role of the individual and the influence of society in communication processes are discussed. Prerequisite: ENG 098, FYE 101, RDG 098, or placement.

MRT 110. Fundamentals of Video Production. 3 Credits.  
Students are introduced to the basics of video recording and editing. Instruction focuses on developing the pre-production, production, and post production expertise required to successfully plan and execute video programs. An overview of video technology is included. MRTV students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 112. Introduction to Audio Production. 3 Credits.  
Students are introduced to the basic procedures and skills used by audio professionals. In order to achieve a basic understanding of sound as it relates to media productions, students perform recording and editing techniques of dialog, radio style production, as well as studio and location sound practices used for video and film. Two hours lecture and two lab hours per week. MRTA students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 121. TV Studio Operations and Multicamera Production. 3 Credits.  
This course encompasses the processes, equipment, facilities, and skills employed in television studio and multicamera production. Emphasis is placed on the operation of cameras, switchers and related equipment, the responsibilities of the production crew, and the direction of live-switched, multicamera production. MRTV students must earn a C or better in the course. Prerequisite: MRT 110. Spring.

MRT 122. Fundamentals of Audio Postproduction. 3 Credits.  
Students are introduced to equipment, procedures, and techniques used on location and in studios for careers in audio for the television and film industries, with an emphasis on post production signal processing and editing. This course builds on the information and skills acquired in MRT 112 Introduction to Audio Production. Two hours lecture and two hours lab per week. MRTA and MRTV students must earn a C or better in the course. Prerequisites: MRT 112. Spring.

MRT 123. Film Studies. 3 Credits.  
The course introduces students to key concepts of film analysis and production, including film narration, language, technology, history, genres, styles, and issues of gender, ethnicity, and identity. American and global cinemas will be discussed. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 202. Media Arts & Technology Internship I. 3 Credits.  
In this course, students earn academic credit while gaining on-the-job experience and training at a broadcast operation or other electronic media-related facility. The student's performance is evaluated by the instructor and the employer. The student will participate in periodic seminars with the course coordinator, and must prepare a detailed account of the internship at the end of the semester. Offered occasionally. Prerequisites: Minimum of 21 college-level credit hours completed.

MRT 208. Writing For Visual Media (Formerly Scriptwriting). 3 Credits.  
Students are introduced to various forms of writing for mass media, including but not limited to writing for print, broadcast, and visual production. During the course of the semester, students will produce appropriately formatted scripts for their portfolios. MRTV students must earn a C or better in the course. Prerequisites: ENG 101; Students enrolled in MRTV should also take recommended corequisite MRT 216. Spring.

MRT 211. Advanced Audio Production. 3 Credits.  
This course builds on information and skills acquired in MRT 112 and MRT 122. Students gain competency with configurations of complex audio systems, matrixes of multibus mixers, digital mixers, advanced techniques in dialog recording, tone shaping, and music editing. Foley work, sweetening, and mixing for picture are major parts of this course. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 216. Digital Cinematography. 3 Credits.  
Students employ production skills acquired in previous classes to effectively craft creative and compelling visual stories and movies. In this course students combine the aesthetics, concepts, and techniques filmmakers have practiced since the days of silent films with contemporary digital technology to create films that will effectively inform, entertain, or persuade today's discerning audiences. MRTV students must earn a C or better in the course. Prerequisites: MRT 229; Students enrolled in MRTV should also take recommended corequisite MRT 208. Spring.
MRT 217. Critical Listening for Audio Engineers. 3 Credits.
This course focuses on awareness of sound. Ear training and auditory recognition are developed through directed listening tasks, discussions, and research. Topics include types of listening, listening environments, sound systems and devices, eras in sound, including equipment and technique, with analytical study of sound engineers' choices in broadcast, cinematic and musical genres. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 223. Independent Study In Media and Electronic Arts. 3 Credits.
This course is an advanced practicum experience in which the individual student, under the guidance of a staff member, develops his/her broadcast telecommunications skills at a professional level. Prerequisite: Permission of division dean. Offered occasionally.

MRT 224. Music Recording and Mixing Techniques. 3 Credits.
This course is the culmination of audio training at MWCC. Students are trained in methods of both recording and mixing music. Sonic spaces, microphone choice and placement, equipment preference and sequence, technical and personal etiquette in recording musical performances involving audiences, stages, or studios - are all practiced in hands-on training in small to large production crews. Mix training utilizes class recordings of live musicians and other prerecorded material. Students mix projects from start to finish, and assist or complete professional-level mixes with the instructor. Training in mastering is applied to an audio portfolio of the student’s best to work to date. MRTA students must earn a C or better in the course. Prerequisite: MRT 211. Spring.

MRT 228. Self Promotion and the Business of Media Arts. 3 Credits.
This course prepares students to advance their careers in the media arts. Students learn to use social media and personal and industry websites to market themselves to employers and clients. Effective job searching, proposal writing, and resume development are covered. Freelancing, small business operations, and professional/ethical responsibilities are emphasized. Students research legal issues such as copyright and trademarks, contracts and tax structures that impact on the media professional. Offered as independent study by permission of division dean for night students. Prerequisite: ENG 102. Spring.

MRT 229. Video Postproduction (Formerly Editing Digital Video). 3 Credits.
Building on their knowledge of video production, students will develop expertise in the technology and techniques of digital, nonlinear editing. This course introduces the fundamental concepts, terminology, and operation of nonlinear editing systems. Throughout the course, students develop an understanding of the techniques and aesthetics video and film editors employ as effective storytellers. Using industry standard, nonlinear editing systems, students practice applying the craft of editing, assembling sequences of pictures and sounds to create finished programs including titles, graphics, and special effects. MRTV students must earn a C or better in the course. Prerequisite: MRT 110. Fall.

MEDICAL ASSISTING

The Medical Assisting Program at Mount Wachusett Community College provides students with the opportunity to earn a Medical Assisting Certificate or Associate Degree in Medical Assisting. Upon completion of the program, students are prepared for positions as medical assistants and can work in a variety of medical settings. During the course of study, students will develop skills and competencies in clinical and administrative duties. Students will gain knowledge in patient care and operational functions.

**MEDICAL ASSISTING DEGREE (MAS)**

Medical assistants perform a combination of clinical and administrative duties. Clinical duties include assisting doctors with examinations, drawing blood, placing patients in rooms, administering immunizations, removing sutures, assessing vital signs, and applying wound care. Administrative duties include scheduling appointments, answering phones, billing insurance companies, making referrals, and phoning in prescriptions. Because medical assistants work in an office environment, most work regular day-time hours. Students who complete the Medical Assisting Certificate (MASC) (p. 236) can continue to complete the Medical Assisting Degree. Clinical courses are offered only during the day. This degree is particularly beneficial to students who are interested in the completion of an associate degree to advance their employment in the medical field.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>Cycle 1</td>
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<tr>
<td>MAS 105</td>
<td>Introduction to Medical Assisting 1</td>
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<td>Cycle 2</td>
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<tr>
<td>MAS 208</td>
<td>Principles Of Pharmacology 1</td>
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<td>Full Term</td>
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<tr>
<td>ENG 101</td>
<td>College Writing 1</td>
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<tr>
<td>MAS 130</td>
<td>Medical Terminology and the Body Systems 1</td>
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<tr>
<td>MAS 207</td>
<td>Medical Assisting Clinical Procedures 1</td>
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Spring
Cycle 1
MAS 230 Finance Practice Management 1  4
MAS 206 Medical Assisting Lab Procedures 1  4
Cycle 2
MAS 240 Medical Assisting Seminar 1  2
MAS 250 Externship 1  4

Year 2
Fall
ENG 102 College Writing II  3
EOA 107 Word Processing Applications  3
MAT 126 Topics In Mathematics (or higher)  3
Lab Science Elective 2  4
Professional Elective I (see list below)  3-4

Spring
PSY 105 Introduction To Psychology  3
PER 130 Health, Fitness, And Wellness  3
Professional Elective II (see list below)  3
Humanities Elective 3  3
General Elective 4  3

Total Credits:  60-62

1 A minimum grade of C+ or better is required for all MAS courses.
2 Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
3 Humanities Electives: See Elective Courses by Abbreviation (p. 357).
4 General Electives: See General Elective (p. 357) exclusions.

Professional Electives

<table>
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<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>ASL 101 Basic American Sign Language I  3</td>
</tr>
<tr>
<td>HEA 101 Health And Disability In The Older Adult  3</td>
</tr>
<tr>
<td>HEA 103 Medical Interpretation  4</td>
</tr>
<tr>
<td>MAS 209 Medical Legal Concepts, Practices, And Ethics  3</td>
</tr>
<tr>
<td>SPA 103 Spanish For Health Care Professionals  3</td>
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</tbody>
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Student Success Tips
Some courses are offered only during one semester per academic year (fall or spring); students should become of aware of this restriction and register for these courses when they are offered.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options
For transfer options, please click here. (p. 62)

Special Requirements
Technical standards must be met with or without accommodations. Students must pass all MAS courses with a C+ or better to remain in good standing in the MAS program.

Students seeking to participate in the medical assisting program may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, health insurance and liability insurance.

As part of the coursework in the medical assisting program, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain...
background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER admission/acceptance into the medical assisting program. Because of these required screenings, students may be required to register early for these courses. Please check for specific deadlines on the course listing for each semester.

The prospective student is encouraged to discuss any concerns with the program director. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program.

**Certification**

Graduates of the accredited Medical Assisting Certificate Program (MASC) are eligible to become certified by taking and passing the national Certified Medical Assistant (CMA) Exam through the AAMA. (Only students who graduate from an accredited program are allowed to sit for this exam.) This opportunity is available following the successful completion of the certificate program during the first year of the degree program.

**Career Options/Earning Potential**

Please click here for career options. ([https://mwcc.emsicareercoach.com/#action=loadSearchResults&amp;Search=medical+assisting&amp;SearchType=occupation](https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=medical+assisting&SearchType=occupation))
MEDICAL ASSISTING CERTIFICATE (MASC)

Medical assistants perform a combination of clinical and administrative duties. Clinical duties include assisting doctors with examinations, drawing blood, placing patients in rooms, administering immunizations, removing sutures, assessing vital signs, and applying wound care. Administrative duties include scheduling appointments, answering phones, billing insurance companies, making referrals, and phoning in prescriptions. Because medical assistants work in an office environment, most work regular day-time hours with no weekends or holidays. Upon successful completion of the Medical Assisting Certificate, graduates will be eligible to sit for a certification exam as a medical assistant and seek employment as a certified medical assistant. The Medical Assisting program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), on recommendation of the Medical Assisting Review Board: CAAHEP, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; telephone 727-210-2350. Courses completed as part of this certificate program can be applied to the Medical Assisting Degree program.

### Year 1

#### Fall

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<thead>
<tr>
<th>Cycle 1</th>
<th>Credits</th>
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<tr>
<td>MAS 105</td>
<td>Introduction to Medical Assisting</td>
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<td>Cycle 2</td>
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<th>Spring</th>
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<td>Cycle 1</td>
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<td>MAS 206</td>
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<td>MAS 230</td>
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<td>Cycle 2</td>
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<tr>
<td>MAS 240</td>
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<td>MAS 250</td>
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**Total Credits:** 29

### Student Success Tips

Some courses are offered only in the semester they are shown in the guide; students must register for these courses when they are offered. It is strongly suggested that students take ENG 101 College Writing I during the summer session.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

### Special Requirements

Technical standards must be met with or without accommodations. Students must pass all MAS courses with a C+ or better to remain in good standing in the MAS program.

Students seeking to participate in the medical assisting program may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, health insurance and liability insurance.

As part of the coursework in the certificate, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER registration in the coursework. Because of these required screenings, students may be required to register early for these courses. Please check for specific deadlines on the course listing for each semester.

The prospective student is encouraged to discuss any concerns with the dean. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the certificate.
Certification
Graduates of MWCC’s accredited program can become certified by taking and passing the national Certified Medical Assistant (CMA) Exam through the AAMA. Only students who graduate from an accredited program are allowed to sit for this exam.

Career Options/Earning Potential
Please click here for career options. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=medical+assisting&SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR MAS (DAYS ONLY) AND MASC
Upon graduation from these programs, students will demonstrate the following administrative, clinical, and transdisciplinary competencies:

- Manage clerical functions and bookkeeping procedures required of the medical office
- Complete special accounting entries and insurance claims with accuracy
- Collect and process specimens
- Complete in-office diagnostic testing
- Provide competent patient care and patient management during the office visit
- Engage in effective and accurate written, oral and non-verbal communication
- Define and demonstrate necessary legal concepts
- Provide accurate patient instruction
- Manage all necessary operational functions

TECHNICAL STANDARDS ¹ FOR MAS
¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Be able to type 30 words per minute for three minutes with three or fewer errors using the “touch” method of typing.
- Distinguish shapes and colors under a microscope.
- Read typewritten text and patient data from a computer screen with or without corrective devices.
- Discriminate color in order to identify reagents and other materials such as laboratory media, stained preparations, and the physical properties of various body fluids.
- Possess the manual dexterity required in such tasks as performing phlebotomy; operating blood analyzers and laboratory information systems; handling small containers of potentially biohazardous specimens (one inch by one inch); using sample measuring devices such as pipettes; giving injections and being able to adequately focus and manipulate a microscope and, using the small muscle dexterity necessary to do such tasks as gloving, gowing, and operating controls on machinery.
- Traverse the hospital and laboratory corridors, passageways, and doorways (minimum width, three feet).
- Stand independently without external support for extended periods of time.
- Communicate with patients and staff in the English language.
- Maintain cleanliness and personal grooming consistent with close personal contact.
- Possess hearing with or without corrective devices to be able to transcribe medical dictation from recorded media.
- Comprehend and respond to the spoken word of all age-specific groups.
- Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.
- React quickly, both mentally and physically.
- Work as a member of a team.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Identify behaviors that would endanger a person’s safety and intervene quickly, with an appropriate solution, in a crisis situation.
- Exhibit social skills appropriate to professional interactions.
• Respond to distress sounds, visual distress cues, emergency alarms, and vital sign assessment equipment with or without corrective devices.

MAS 102. Medical Terminology. 3 Credits.
This course provides students with a clear understanding of medical vocabulary. A workbook-text format is used to develop word-building activities that guide students through exercises that teach and reinforce medical terminology. Numerous and varied activities challenge students to understand and remember the significant concepts of medical word building. The online Medical Language Lab and the DavisPlus Resource Center provide reinforcement of pronunciation, spelling, definition of medical words, and basic anatomy and physiology of the body systems. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MAS 105. Introduction to Medical Assisting. 2 Credits.
This course provides a foundation of the administrative skills required to function as an entry-level medical assistant in an ambulatory care facility. Focus is placed on psychological, social, and developmental concepts applicable to caring for individuals and families in a variety of healthcare settings. Students will be introduced to administrative functions, telephone techniques, appointment scheduling, patient reception and processing, and legal concepts affecting patient care, drug regulations, and employment. Students will develop interpersonal communication and organizational skills to work professionally in a medical office. Emphasis is placed on high standards of ethics in relation to the patient and profession. Prerequisites: ENG 098, FYE 101, RDG 098.

MAS 130. Medical Terminology and the Body Systems. 4 Credits.
This course is designed to provide students with a clear understanding of two important concepts in healthcare, medical terminology and the relationship between structure and function. It offers fundamental concepts as to the origin of medical terms, word building as well as the various word parts and their uses when constructing and analyzing medical terms. A workbook-text format is used to help understand the principles of word building and an online learning management system platform containing audio and visual aids is utilized to enhance learning including proper pronunciation of words. The integration of concepts about the various organ systems and their functions including comparison of structure and function of the human body across the life span, identifying the various organs composing each organ system, relevant pathology, signs and symptoms including treatment, facilitate retention of concepts learned in medical terminology. The online Practice Anatomy Lab (PAL 3.0) containing virtual human cadaver dissections, histology and illustrations provides additional audio and visual aids to facilitate learning. It utilizes an adaptive-based learning platform that caters to the needs of each individual learner and online student activities for this course are assigned to further clarify concepts and enhance learning. Prerequisites: ENG 098, FYE 101, RDG 098.

MAS 180. Advanced Medical Administrative Procedures. 4 Credits.
This course will provide additional administrative skills that will allow students to function more effectively in the administrative area of a medical facility. Among the topics included will be advanced communication skills to analyze the needs of the patient, basic database management, templates, creating and analyzing reports, tables, and graphs. Each topic will be further explored in lab utilizing case studies. Prerequisites: MAS 105, MAS 230 (or corequisite). Spring.

MAS 201. Medical Machine Transcription. 3 Credits.
This is a beginning medical transcription course designed to provide students with a working knowledge of the transcription of medical reports. Medical reports will be transcribed from ten individual case studies, each of which concerns a specific system of the body. The case studies have been taken from hospital medical records. The medical reports included are history and physical examinations, radiology reports, operative reports, pathology reports, requests for consultation, discharge summaries, and death summaries. Prerequisites: EOA 106 or placement; MAS 130. Spring.

MAS 206. Medical Assisting Lab Procedures. 4 Credits.
Students are introduced to clinical laboratory aspects of medical assisting and learn to perform the following: use quality control principles during patient specimen collection and instrument and reagent preparation; prepare and maintain quality control records; perform and record results for basic hematologic, chemistry, serologic, and microbiologic tests; collect and label biological specimens including blood, urine, stool, sputum, throat, and vaginal; process, prepare, store, deliver and dispose of specimens along with collection equipment; and use universal precautions and laboratory safety protocols. Three hours lecture and two hours lab per week. Prerequisites: MAS 105, 130, 207, and 208 successfully completed with a grade of C+ or better. Spring.

MAS 207. Medical Assisting Clinical Procedures. 4 Credits.
Medical assisting clinical procedure is a four-credit course consisting of three hours lecture and two hours lab per week. Students will learn the theoretical aspects of clinical concepts that are applicable in a healthcare setting as well as learning the proper execution of medical procedures when assisting practitioners, patients and in the administration of clinical procedures. Concepts covered in this course include various diagnostic and therapeutic modalities, preparation and administration of medications, taking vital signs, recognizing emergencies, proper use of medical equipment and devices, stocking supplies, proper sharps disposal, history taking, assisting in physical exams and treatments, proper identification of patients and patient instruction for medical procedures, dietary modification and follow up. Homework are completed online and the use of videos consisting of clinical procedures and scenarios.
provide additional learning materials that enhance understanding of concepts covered in class. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Corequisites: MAS 105, 130. Fall.

**MAS 208. Principles Of Pharmacology. 2 Credits.**
This course examines current and commonly used practices, procedures, medications, and drug preparations. Emphasis is placed in three areas: medication calculations; drug book usage; and the effects of drugs on the body systems. Instruction on the system of measurements and conversions used to calculate medication dosages will be provided. The use of a drug book will be taught with emphasis on drug classifications, routes of administration, drug preparation, and patient education. Discussion on the effects of drugs on the body systems will include interactions and vitamins and supplements. Additional topics will include safety protocols, compliance with drug regulations, and quality control of prescription requests. Students will apply critical thinking regarding patient assessment and develop skills for effective patient communication, care, and education. Prerequisites: MAS 130 (or corequisite); MAS 207 (or corequisite); MAT 092 or placement. Spring.

**MAS 209. Medical Legal Concepts, Practices, And Ethics. 3 Credits.**
This course prepares students to work in a medical office. All aspects of medical employment are explored from new laws relevant to the medical office to OSHA, DEA, CDC, and HIPAA regulations most important to medical office workers. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Spring.

**MAS 211. Externship Experience for Medical Office Certificate. 3 Credits.**
This externship experience will allow student to apply knowledge, perform administrative procedures and develop professional attitudes for interacting with other professionals and healthcare consumers. Placements include actual medical offices, clinics, and/or healthcare facilities. The field experience, seminar and certification review will equal 120 hours. Students are expected to complete a minimum of 15 hours/week at the externship site. Prerequisites: MAS 105, MAS 130, MAS 180, MAS 230, ENG 101 and SOC 150. Corequisite: BUS 112. Spring.

**MAS 230. Finance & Practice Management. 4 Credits.**
This course provides a foundation of the financial and additional administrative skills required in an ambulatory care facility. Students will gain knowledge and experience with both paper and electronic medical records. This course is designed to provide students with a clear understanding of scheduling and bookkeeping. The regulations of various medical insurances, including Medicare, Medicaid, and Workman’s Compensation will be presented. Students will learn and complete procedural and diagnostic coding and medical billing. There is a lab component to this course. The lab will consist of EHR exercises, medical coding case studies, and office simulations. Upon completion of this course, students will be able to function effectively within the administrative area of a medical facility. Prerequisite: MAS 105.

**MAS 240. Medical Assisting Seminar. 2 Credits.**
This course is designed to help students integrate knowledge from across the medical assisting curriculum in preparation for the Certified Medical Assistant (CMA) exam. Students will integrate and apply both administrative and clinical knowledge, theory and understanding from their previous course work in the medical assisting program. The HESI application from Elsevier will be used for initial testing, individualized remediation for each student will be provided, and an exit exam will be conducted. They will be tested on their administrative, clinical and general medical knowledge. Areas that will be tested include: office and financial management, diagnostic and treatment services, pharmacology, and laboratory services, medical terminology, anatomy, physiology and healthcare law and ethics. Study and test taking techniques will be reviewed and practice sessions for the exam will be available. Registration is restricted to students who are preparing to take the CMA exam. Prerequisites: MAS 130, MAS 206, MAS 207, MAS 208, and MAS 230 successfully completed with a grade of C+ or better. Spring.

**MAS 250. Externship. 4 Credits.**
This externship will provide supervised placement in a non-classroom setting at a health-care facility, medical office or other appropriate site. This experience will enable the student to synthesize and apply concepts and skills learned in the Medical Assisting program. This externship consists of a minimum of 160 hours of unpaid, supervised experience at an approved clinical site of Mount Wachusett Community College. The experience is to be divided as 40 administrative hours and 120 clinical hours. This will allow the student to be involved in the total environment of a health care facility. In addition, there will be an online component to this experience. Enrollment requires permission of the MA program director, CORI/SORI check, up-to-date health requirements, and provider/professional level CPR. An appointment with the program director is required both before and after the externship. Prerequisites: MAS 105, MAS 130, MAS 206, MAS 207, MAS 208, MAS 230 successfully completed with a grade of C+ or better. Corequisite: MAS 240. Spring.

**MEDICAL LABORATORY TECHNOLOGY (FORMERLY CLINICAL LABORATORY SCIENCE)**
The Medical Laboratory Technology program at Mount Wachusett Community College provides students with an opportunity to earn an Associate Degree in Medical Laboratory Technology. Upon completion of this degree program, students are prepared to obtain positions in the medical laboratory. During the course of study, student will prepare to play a vital role in patient care by performing a
wide range of clinical laboratory procedures used in the detection, diagnosis, and treatment of disease. Clinical laboratory technicians analyze specimens for bacteria, parasites, and other microorganisms; analyze the chemical and cellular content of body fluids; match blood for transfusions; and test for drug levels in the blood to show how a patient is responding to treatment. Clinical laboratory technicians also collect and prepare patient specimens. The important laboratory results generated by this testing are then analyzed and relayed to physicians. The modern clinical laboratory uses increasingly sophisticated instrumentation interfaced with computer technology.

**MEDICAL LABORATORY TECHNOLOGY (MLT)**

The MLT curriculum provides general education courses and introductory MLT courses in the first year, then career-related courses and practical experience in the second year. The first year courses are open to students wishing to enter the MLT program. The second year MLT courses are restricted to those MLT majors that have maintained a C+ or higher in all BIO, MLT, CHE and MAT courses during the first year curriculum. The MLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 North River Road, Suite 720, Rosemont, Illinois 60018, telephone 773-714-8880. Graduates of the MLT program are eligible to take a national certification examination, such as that offered by the Board of Certification of the American Society for Clinical Pathology.

### Year 1

#### Summer

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<tr>
<td>MAT 162</td>
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#### Fall

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<td>CHE 107</td>
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#### Spring

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<tr>
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<tr>
<td>BIO 205</td>
<td>Microbiology ¹</td>
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<td>MLT 105</td>
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<td>MLT 106</td>
<td>Phlebotomy and Urinalysis Practicum for pre-MLT Students ¹</td>
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Social Science Elective ²

Humanities Elective ³

#### Year 2

#### Fall

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<tr>
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<td>MLT 221</td>
<td>Clinical Practicum I - Hematology ¹</td>
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<td>MLT 222</td>
<td>Clinical Immunohematology ¹</td>
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<td>MLT 223</td>
<td>Clinical Practicum II - Immunohematology ¹</td>
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#### Spring

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<td>MLT 225</td>
<td>Clinical Practicum III - Microbiology ¹</td>
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<td>MLT 226</td>
<td>Clinical Chemistry ¹</td>
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<td>MLT 227</td>
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Total Credits: 71-72

¹ Students must earn a C+ or better in BIO, CHE, MAT, and MLT (or CLS) courses.

² Social Science Electives: See Elective Courses by Abbreviation (http://catalog.mwcc.edu/associateddegreesandcertificatelistandotheroptions/#electivecoursesbyabbreviationtext). NOTE: Can be taken any first year semester.

³ Humanities Electives: See Elective Courses by Abbreviation (p. 357). Note: Can be taken any first year semester.

See the Medical Laboratory Technology general information for program student learning outcomes and technical standards.

**CAMPUS**

MLT courses are offered in Gardner.
Student Success Tips
Success in this field requires attention to detail, flexibility to multitask and change tasks when interrupted, a strong concern for order, sound judgment and ability to conduct laboratory procedures accurately and when under pressure.

Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special Requirements
Students who satisfy the prerequisites are eligible to enroll in the first-year courses of the MLT program.

Students must supply the following information before the course begins:

- Health examination conducted within the past two years by a licensed healthcare provider, given to Health Services on MWCC’s Report of Medical History form
- Proof of current immunizations, given to Health Services office (978-630-9136, for more information):
  - Tuberculosis screening (2 step PPB OR TB Spot Test) within 1 year
    - If positive, negative chest X-ray and annual TB questionnaire
  - Measles, Mumps and Rubella: series of 2 or a positive antibody titer
  - Hepatitis B: series of 3 AND a positive antibody titer for Hepatitis B
  - Tetanus, Diphtheria, Pertussis (Tdap) within 10 years
  - Chicken Pox: 2 vaccines or a positive antibody titer
  - Influenza vaccine (current season)
  - Release Form
- Bloodborne pathogen training certificate (done as part of the MLT 103 Introduction to Medical Laboratory Technology I (Formerly CLS103) course)
- Liability Insurance of $1,000,000/$3,000,000 coverage is required. Students will be covered under the college’s liability insurance policy, which will be billed through student fees.
- All health profession students must participate in the Massachusetts Community College Health Insurance Plan or provide accurate information regarding comparable coverage.
- CORI/SORI. As part of the coursework in the MLT program, students are required to complete practical hours in clinical facilities working with patients under the supervision of licensed providers. Clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender or fingerprinting) before participating in the clinical experience. Cost for drug testing is the responsibility of the student.
- Drug testing. Drug testing should be done two weeks before clinical placement. Information and procedure will be given to students in MLT 105 Introduction to Medical Laboratory Technology II (Formerly CLS105). The cost for drug testing is the responsibility of the student.
- Refusing to participate in these background checks or drug testing will result in inability to progress in the program. A positive background check or drug test may also result in the inability to progress in the program. The criminal background check may also be required for future employment and/or licensure and/or certification.

The prospective student is encouraged to discuss any concerns with the program director prior to beginning the MLT program. This information is given to you now just to forewarn you of the potential additional cost and responsibilities.
Students must earn a C+ or better in BIO, CHE, MLT and MAT courses to remain in good standing and continue through the MLT course sequence. Clinical placement within the second year of the program is not guaranteed, but the MLT program director will attempt to secure alternate training as soon as possible.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=Medical+lab+tech&SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR MLT
Upon graduation from this program, students shall have demonstrated the ability to:

- Procure laboratory test samples in an efficient, timely manner.
- Produce accurate laboratory test results within acceptable limits of quality control.
- Correlate and interpret laboratory test data.
- Disseminate laboratory test information to clinicians in a timely manner.
- Consult with more experienced team members when necessary.
- Exhibit knowledge of laboratory tests and standards.
- Exhibit basic knowledge of professional ethics, laws and regulations.
- Demonstrate continued competency in the field at least annually.
- Maintain membership in a professional organization.
- Perform multi-functional tasks.
- Actively participate in continuing education.

TECHNICAL STANDARDS 1 FOR MLT
1 For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering the MLT program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Walk for a minimum of six hours, not necessarily consecutively.
- Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
- Differentiate colors as assessed by standard color blindness evaluation.
- Differentiate by touch, hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
- Respond to spoken words, monitor signals, and instrument alarms.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.

MLT 103. Introduction to Medical Laboratory Technology I (Formerly CLS103). 4 Credits.
This introductory course provides students with the theory and laboratory skill that serve as the foundation for clinical coursework in the hospital laboratory. An overview of the role of the clinical laboratory scientist in health care in general and patient care in particular is emphasized. Basics of laboratory equipment, measurement, and lab math, along with use of information systems are covered. Learning and understanding of the quality assurance process and safety in the lab prepares the student for introduction to specialized departments within the laboratory. Students will be introduced to basic immunology, serology and the use of antigen/antibody reactions in the medical laboratory. In addition, a brief introductory survey of selected topics in hematology, clinical chemistry and immunohematology will be presented. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement; BIO 113 (preferred) or BIO 109; CHE 107 recommended. Fall.
MLT 105. Introduction to Medical Laboratory Technology II (Formerly CLS105). 3 Credits.
This introductory course expands on the student's knowledge gained in MLT 103, and concentrates on the analysis of selected body fluids and the proper collection of peripheral blood samples. The course covers the production of selected body fluids (e.g., urine, semen, synovial fluid and feces); their normal characteristics and pathological changes will be discussed within the practice of acceptable quality assurance. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented. Throughout this course, special emphasis is placed on the correlation of laboratory results with the patient's probable condition. The course also provides theory in phlebotomy and practical instruction in skills needed to obtain acceptable blood samples by venipuncture, capillary (dermal) puncture, or other techniques. Students will learn to safely and proficiently collect various types of blood specimen for laboratory analysis. NOTE: Students must pass both the UA/Body Fluids and Phlebotomy component with a grade of “C+” (77 percent) or better to maintain an acceptable performance level to progress in the pre-MLT program. If a student fails to achieve at least a “C+” (77 percent) in either UA/Body Fluids or Phlebotomy, their final grade for the course will be the lower of the two grades. THE STUDENT WILL NOT BE ALLOWED TO CONTINUE IN SEQUENCE TO MLT 106 OR PROGRESS TO THE MLT PROGRAM CLINICAL YEAR IF THEY FAIL TO ACHIEVE A “C+” (77 PERCENT) OR HIGHER IN ANY LABORATORY OR LECTURE (UA/BODY FLUIDS AND PHLEBOTOMY) COMPONENT IN THE CURRICULUM. Prerequisites: MLT 103; BIO 204 recommended (or corequisite). Spring.

MLT 106. Phlebotomy and Urinalysis Practicum for pre-MLT Students. 1 Credit.
This course provides practical experience (37.5 scheduled hours of urinalysis and drawing blood) for the student to apply the knowledge, attitudes, and skills of clinical laboratory practice in specimen collection, phlebotomy and urinalysis that were gained in MLT 105. This knowledge is integrated into the clinical laboratory through the practice of phlebotomy and urinalysis, utilizing appropriate resource management, communications, quality assurance, safety, and information systems. Placement by arrangement. Prerequisites: MLT 103 and MLT 105. Summer.

MLT 220. Clinical Hematology and Hemostasis. 5 Credits.
This course is designed to develop medical laboratory technician skills that will be used in the Hematology and Hemostasis laboratories in a hospital setting. The course details the formation, function, and morphology of the blood’s normal cellular elements as well as the systems involved in coagulation and fibrinolysis. Students will apply their knowledge and skills using theoretical knowledge, principles and procedures of hematology and coagulation testing, identify sources of error, and relate clinical significance of laboratory results to human disease. Students will learn to correlate laboratory findings with the patient's clinical signs and symptoms using case studies, homework and practical exams. Prerequisites: MLT 103, MLT 105, MLT 106, MAT 143, CHE 107, BIO 204 and BIO 205 with a C+ or higher. Fall.

MLT 221. Clinical Practicum I - Hematology. 3 Credits.
This course is the clinical practicum experience in Hematology and Hemostasis, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply the knowledge and skills using principles and procedures of hematology and coagulation testing, identifying sources of error and relate the clinical significance of results to human disease. Students are to be able to correlate a patient's laboratory findings with the patient's diagnosis or other laboratory results. The students must receive a passing grade (representing a C+ or higher) in order to progress through the program. Prerequisites: C+ or higher in MLT 220 and MLT 222. Fall.

MLT 222. Clinical Immunohematology. 5 Credits.
This course is designed to develop medical lab science skills in Immunohematology. Theoretical concepts underlying blood group biochemistry, genetics, and serology as they relate to blood donation and transfusion therapy practices are presented. An understanding of the role of both humoral and cellular immunity in defense against disease is investigated as they relate to common immunoassays. Students will apply their knowledge and skills using principles and routine blood bank and serology procedures including donor selection, compatibility testing, detection and identification of antibodies, and component preparation and handling. Prerequisites: MLT 103, MLT 105, MLT 106, MAT 143, CHE 107, BIO 204 and BIO 205 with a C+ or higher. Fall.

MLT 223. Clinical Practicum II - Immunohematology. 3 Credits.
This course is the clinical practicum experience in Immunohematology, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using principles and routine blood bank and serology procedures including donor selection, compatibility testing, detection and identification of antibodies, and component preparation and handling. Prerequisites: A C+ or better in MLT 220 and MLT 222. Fall.

MLT 224. Clinical Microbiology. 5 Credits.
This course is designed to introduce students to the role of microbes in the pathology of human infectious diseases. Students will apply their knowledge and skills using conventional microscopic, culture, and biochemical techniques to isolate, differentiate, identify, quantify, and determine the antimicrobial susceptibility of medically relevant pathogenic microorganisms. The course emphasizes
bacteria, viruses, parasites, and fungi found in clinical specimens. Prerequisites: C+ or better in MLT 220, MLT 221, MLT 222, MLT 223. Spring.

**MLT 225. Clinical Practicum III - Microbiology. 3 Credits.**
This course is the clinical practicum experience in Microbiology, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using conventional microscopic, culture, and biochemical techniques to isolate, identify, quantify, differentiate, and determine the antimicrobial susceptibility of medically relevant microbial pathogens including bacteria, a few viruses, parasites, and fungi found in clinical specimens. Prerequisites: C+ or higher in MLT 224 and MLT 226. Spring.

**MLT 226. Clinical Chemistry. 5 Credits.**
This course is designed to interrelate human disease with the biochemistry of human physiology and metabolism. In addition to learning the chemical principles underlying the laboratory procedures, students will understand the operating principles, sources of error, and routine maintenance of the instrumentation. Prerequisites: C+ or better in MLT 220, MLT 221, MLT 222, MLT 223. Spring.

**MLT 227. Clinical Practicum IV - Clinical Chemistry. 3 Credits.**
This course is the clinical practicum experience in Clinical Chemistry, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using principles and procedures of clinical chemistry to operate instrumentation that generates results used to detect various diseases. In addition to learning the chemical principles underlying the laboratory procedures, students will understand the operating principles, sources of error, and routine maintenance of the instrumentation. Prerequisite: C+ or better in both MLT 224 and MLT 226. Spring.

**MEDICAL OFFICE**
The Medical Office Certificate Program at Mount Wachusett Community College provides students with the preparation needed for positions in a variety of healthcare settings. Upon completion of the program, students will have the skills and competencies to pursue an entry-level position in a medical office.

**MEDICAL OFFICE CERTIFICATE (MOC)**
The Medical Office Certificate program provides students with the skills and knowledge needed in a medical office environment: medical secretarial procedures, medical terminology, accounting, coding and billing, word processing, and medical machine transcription.

Upon successful completion of all Medical Office Certificate (MOC) courses, a student will be eligible to sit for the Certified Medical Administrative Assistant (CMAA) exam through the National Healthcare Association (NHA). The cost of this exam is $117 and has been included as a program fee.

For more information, please call 978-630-9357.

### Year 1

#### Fall

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<td>SOC 150</td>
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<td>MAS 130</td>
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<td>MAS 180</td>
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<tr>
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**Total Credits:** 26

See the Medical Office general information for technical standards.
Student Success Tips
Students will benefit from having some ability in mathematics and being detail-oriented. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options
This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Medical Assisting Certificate and/or Degree.

Special Requirements
Students must have excellent oral and written communication skills as well as keyboarding skills or the ability to acquire them. Technical standards must be met with or without accommodations.

Students seeking to participate in MAS 211 Externship Experience for Medical Office Certificate may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, health insurance, liability insurance, a Criminal/Sexual Offender Records Information (CORI/SORI) check, fingerprinting, and drug testing. Some of these may be done at the student’s expense.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Medical+Office&SearchType=occupation&EdLevel=all)

PROGRAM STUDENT LEARNING OUTCOMES
Upon graduation from this program, students shall have demonstrated the ability to:

• Perform clerical functions, bookkeeping procedures and special accounting entries
• Complete and file an insurance claim
• Engage in effective written and oral communication
• Understand legal concepts
• Provide accurate patient instructions
• Manage operational functions

TECHNICAL STANDARDS ¹ FOR MOC

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Be able to type 30 words per minute for three minutes with three or fewer errors using the "touch" method of typing.
• Read typewritten text and patient data from a computer screen with or without corrective devices.
• Communicate with patients and staff in the English language.
• Maintain cleanliness and personal grooming consistent with close personal contact.
• Possess hearing with or without corrective devices to be able to transcribe medical dictation from recorded media.
• Comprehend and respond to the spoken word of all age-specific groups.
• Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.
• Function without causing harm to others. This would include situations that may result from chronic mental or physical conditions.
• React quickly, both mentally and physically.
• Work as a member of a team.
• Exhibit social skills appropriate to professional interactions.
MAS 102. Medical Terminology. 3 Credits.
This course provides students with a clear understanding of medical vocabulary. A workbook-text format is used to develop word-building activities that guide students through exercises that teach and reinforce medical terminology. Numerous and varied activities challenge students to understand and remember the significant concepts of medical word building. The online Medical Language Lab and the DavisPlus Resource Center provide reinforcement of pronunciation, spelling, definition of medical words, and basic anatomy and physiology of the body systems. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MAS 105. Introduction to Medical Assisting. 2 Credits.
This course provides a foundation of the administrative skills required to function as an entry-level medical assistant in an ambulatory care facility. Focus is placed on psychological, social, and developmental concepts applicable to caring for individuals and families in a variety of healthcare settings. Students will be introduced to administrative functions, telephone techniques, appointment scheduling, patient reception and processing, and legal concepts affecting patient care, drug regulations, and employment. Students will develop interpersonal communication and organizational skills to work professionally in a medical office. Emphasis is placed on high standards of ethics in relation to the patient and profession. Prerequisites: ENG 098, FYE 101, RDG 098.

MAS 130. Medical Terminology and the Body Systems. 4 Credits.
This course is designed to provide students with a clear understanding of two important concepts in healthcare, medical terminology and the relationship between structure and function. It offers fundamental concepts as to the origin of medical terms, word building as well as the various word parts and their uses when constructing and analyzing medical terms. A workbook-text format is used to help understand the principles of word building and an online learning management system platform containing audio and visual aids is utilized to enhance learning including proper pronunciation of words. The integration of concepts about the various organ systems and their functions including comparison of structure and function of the human body across the life span, identifying the various organs composing each organ system, relevant pathology, signs and symptoms including treatment, facilitate retention of concepts learned in medical terminology. The online Practice Anatomy Lab (PAL 3.0) containing virtual human cadaver dissections, histology and illustrations provides additional audio and visual aids to facilitate learning. It utilizes an adaptive-based learning platform that caters to the needs of each individual learner and online student activities for this course are assigned to further clarify concepts and enhance learning. Prerequisites: ENG 098, FYE 101, RDG 098.

MAS 180. Advanced Medical Administrative Procedures. 4 Credits.
This course will provide additional administrative skills that will allow students to function more effectively in the administrative area of a medical facility. Among the topics included will be advanced communication skills to analyze the needs of the patient, basic database management, templates, creating and analyzing reports, tables, and graphs. Each topic will be further explored in lab utilizing case studies. Prerequisites: MAS 105, MAS 230 (or corequisite). Spring.

MAS 201. Medical Machine Transcription. 3 Credits.
This is a beginning medical transcription course designed to provide students with a working knowledge of the transcription of medical reports. Medical reports will be transcribed from ten individual case studies, each of which concerns a specific system of the body. The case studies have been taken from hospital medical records. The medical reports included are history and physical examinations, radiology reports, operative reports, pathology reports, requests for consultation, discharge summaries, and death summaries. Prerequisites: EOA 106 or placement; MAS 130. Spring.

MAS 206. Medical Assisting Lab Procedures. 4 Credits.
Students are introduced to clinical laboratory aspects of medical assisting and learn to perform the following: use quality control principles during patient specimen collection and instrument and reagent preparation; prepare and maintain quality control records; perform and record results for basic hematologic, chemistry, serologic, and microbiologic tests; collect and label biological specimens including blood, urine, stool, sputum, throat, and vaginal; process, prepare, store, deliver and dispose of specimens along with collection equipment; and use universal precautions and laboratory safety protocols. Three hours lecture and two hours lab per week. Prerequisites: MAS 105, 130, 207, and 208 successfully completed with a grade of C+ or better. Spring.

MAS 207. Medical Assisting Clinical Procedures. 4 Credits.
Medical assisting clinical procedure is a four-credit course consisting of three hours lecture and two hours lab per week. Students will learn the theoretical aspects of clinical concepts that are applicable in a healthcare setting as well as learning the proper execution of medical procedures when assisting practitioners, patients and in the administration of clinical procedures. Concepts covered in this course include various diagnostic and therapeutic modalities, preparation and administration of medications, taking vital signs, recognizing emergencies, proper use of medical equipment and devices, stocking supplies, proper sharps disposal, history taking, assisting in physical exams and treatments, proper identification of patients and patient instruction for medical procedures, dietary modification and follow up. Homework are completed online and the use of videos consisting of clinical procedures and scenarios provide additional learning materials that enhance understanding of concepts covered in class. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Corequisites: MAS 105, 130. Fall.
MAS 208. Principles Of Pharmacology. 2 Credits.
This course examines current and commonly used practices, procedures, medications, and drug preparations. Emphasis is placed in three areas: medication calculations; drug book usage; and the effects of drugs on the body systems. Instruction on the system of measurements and conversions used to calculate medication dosages will be provided. The use of a drug book will be taught with emphasis on drug classifications, routes of administration, drug preparation, and patient education. Discussion on the effects of drugs on the body systems will include interactions and vitamins and supplements. Additional topics will include safety protocols, compliance with drug regulations, and quality control of prescription requests. Students will apply critical thinking regarding patient assessment and develop skills for effective patient communication, care, and education. Prerequisites: MAS 130 (or corequisite); MAS 207 (or corequisite); MAT 092 or placement. Spring.

MAS 209. Medical Legal Concepts, Practices, And Ethics. 3 Credits.
This course prepares students to work in a medical office. All aspects of medical employment are explored from new laws relevant to the medical office to OSHA, DEA, CDC, and HIPAA regulations most important to medical office workers. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Spring.

MAS 211. Externship Experience for Medical Office Certificate. 3 Credits.
This externship experience will allow student to apply knowledge, perform administrative procedures and develop professional attitudes for interacting with other professionals and healthcare consumers. Placements include actual medical offices, clinics, and/or healthcare facilities. The field experience, seminar and certification review will equal 120 hours. Students are expected to complete a minimum of 15 hours/week at the externship site. Prerequisites: MAS 105, MAS 130, MAS 180, MAS 230, ENG 101 and SOC 150. Corequisite: BUS 112. Spring.

MAS 230. Finance & Practice Management. 4 Credits.
This course provides a foundation of the financial and additional administrative skills required in an ambulatory care facility. Students will gain knowledge and experience with both paper and electronic medical records. This course is designed to provide students with a clear understanding of scheduling and bookkeeping. The regulations of various medical insurances, including Medicare, Medicaid, and Workman’s Compensation will be presented. Students will learn and complete procedural and diagnostic coding and medical billing. There is a lab component to this course. The lab will consist of EHR exercises, medical coding case studies, and office simulations. Upon completion of this course, students will be able to function effectively within the administrative area of a medical facility. Prerequisite: MAS 105.

MAS 240. Medical Assisting Seminar. 2 Credits.
This course is designed to help students integrate knowledge from across the medical assisting curriculum in preparation for the Certified Medical Assistant (CMA) exam. Students will integrate and apply both administrative and clinical knowledge, theory and understanding from their previous course work in the medical assisting program. The HESI application from Elsevier will be used for initial testing, individualized remediation for each student will be provided, and an exit exam will be conducted. They will be tested on their administrative, clinical and general medical knowledge. Areas that will be tested include: office and financial management, diagnostic and treatment services, pharmacology, and laboratory services, medical terminology, anatomy, physiology and healthcare law and ethics. Study and test taking techniques will be reviewed and practice sessions for the exam will be available. Registration is restricted to students who are preparing to take the CMA exam. Prerequisites: MAS 130, MAS 206, MAS 207, MAS 208, and MAS 230 successfully completed with a grade of C+ or better. Spring.

MAS 250. Externship. 4 Credits.
This externship will provide supervised placement in a non-classroom setting at a health-care facility, medical office or other appropriate site. This experience will enable the student to synthesize and apply concepts and skills learned in the Medical Assisting program. This externship consists of a minimum of 160 hours of unpaid, supervised experience at an approved clinical site of Mount Wachusett Community College. The experience is to be divided as 40 administrative hours and 120 clinical hours. This will allow the student to be involved in the total environment of a health care facility. In addition, there will be an online component to this experience. Enrollment requires permission of the MA program director, CORI/SORI check, up-to-date health requirements, and provider/professional level CPR. An appointment with the program director is required both before and after the externship. Prerequisites: MAS 105, MAS 130, MAS 206, MAS 207, MAS 208, MAS 230 successfully completed with a grade of C+ or better. Corequisite: MAS 240. Spring.

NATURAL RESOURCES
The Natural Resources Program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Natural Resources. Upon completion of the program, students are prepared for technical positions in environmental occupations and/or transfer to a four-year institution for a baccalaureate degree. During the course of study, students will develop skills, competencies and knowledge of practical plant and animal sciences, forestry, structure and function of ecosystems, greenhouse
management, principles of soils as they relate to biological systems, geographical information systems, and environmental chemistry. Students will also complete a practicum that will give them real-world experience in an area of their interest.

**NATURAL RESOURCES DEGREE (NRD)**

Natural resources covers a range of environmental occupations in the horticulture/floriculture, agriculture, forestry, parks and recreation fields. Because of an emerging appreciation and heightened awareness of the nation’s natural resources, opportunities in these fields are growing. The Natural Resources degree program provides students with a variety of environmentally-oriented subjects. MWCC offers the perfect setting by providing hundreds of acres of undeveloped plant communities and forested areas, two pond ecosystems, and a life studies center consisting of a greenhouse, potting area, and lecture facility. Embedded within the MWCC Natural Resources Degree is a Geospatial Technologies course (EAS 130), which provides the student with current technology skills crucial to this field of study.

### Year 1

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>BIO 116</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102</td>
<td>Introduction To Forestry</td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 140</td>
<td>Introduction To Greenhouse Management</td>
<td>4</td>
</tr>
<tr>
<td>BIO 120</td>
<td>Horticulture</td>
<td>4</td>
</tr>
<tr>
<td>EAS 130</td>
<td>Fundamentals of Geospatial Technologies</td>
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</table>

**Year 2**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 130</td>
<td>Plant Science</td>
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</tr>
<tr>
<td>CHE 120</td>
<td>Environmental Chemistry</td>
<td>4</td>
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<tr>
<td>NRD Professional Elective (see list below)</td>
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<td></td>
</tr>
<tr>
<td>Humanities Elective 2</td>
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<td>3</td>
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**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 122</td>
<td>Zoology: The Biology Of Animals</td>
<td>4</td>
</tr>
<tr>
<td>EAS 120</td>
<td>Soil Science (formerly BIO 220)</td>
<td>4</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective 3</td>
<td>3</td>
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<tr>
<td>NRD 220</td>
<td>Practicum In Natural Resources</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Total Credits: 60-61

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1. MAT 162 Introduction to Functions & Modeling (Formerly MAT 134) or higher recommended for transfer.
2. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
3. Social Science Electives: See Elective Courses by Abbreviation (p. 357).

### NRD Professional Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Introduction To Natural Resource Conservation</td>
<td>4</td>
</tr>
<tr>
<td>BIO 141</td>
<td>Fundamentals of Sustainable Agriculture</td>
<td>4</td>
</tr>
<tr>
<td>BIO 145</td>
<td>Introduction to Field Biology</td>
<td>4</td>
</tr>
<tr>
<td>EAS 125</td>
<td>Physical Geology of the Earth</td>
<td>4</td>
</tr>
<tr>
<td>EAS 126</td>
<td>Weather and Climate</td>
<td>4</td>
</tr>
<tr>
<td>EGM 104</td>
<td>Renewable Energy Sources</td>
<td>4</td>
</tr>
</tbody>
</table>

See Natural Resources program student learning outcomes and technical standards.
Campus
This program is offered on the Gardner campus only.

Student Success Tips
Since the Natural Resources program is a rigorous curriculum in the sciences, students who have taken previous high school or college science courses or have a background in the sciences will be best prepared. Also, since the focus of the curriculum is on plant science, an interest in horticulture and plant biology is recommended.

Transfer Options
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

Special Requirements
A 120-hour practicum is required. Technical standards must be met with or without accommodations.

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=natural+resources&SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR NRD
Upon graduation from this program, students shall have demonstrated the ability to:

- Apply mathematical models, including algebra, to natural resources concepts and models.
- Demonstrate knowledge of ecological principles.
- Use computer technology as it applies to biology, natural resources principles, and geographical information systems.
- Analyze soil samples for pH, chemicals, growth potential, etc.
- Sample water and air, analyze data, report in proper format, and determine cause of abnormal data.
- Analyze growth requirements of a variety of animal types.
- Organize and apply knowledge applicable to management of a greenhouse.
- Employ principles of plant science and pathology to greenhouse procedures and forestry management.
- Exhibit employment skills applicable to a variety of technician level titles.

TECHNICAL STANDARDS FOR NRD
For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at the 11th grade level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Complete repetitive tasks such as transplanting and trimming while maintaining attention to detail.
- Work at tasks with minimum supervision and with constant awareness of the development of impending problems, such as insect/mold infestations.
- Purchase, store, apply, and properly dispose of materials such as fertilizers and pesticides, with regard to the law and with respect.
- Work as part of a team in areas often cramped for space such as greenhouse workstations.
- Function well in outdoor natural settings such as bogs/swamps while dressed in suitable/uncomfortable gear and under less than ideal conditions of temperature, moisture, and insects.
- Possess an adequate level of physical dexterity and strength to lift/maneuver bags of soil/fertilizer and to properly and safely operate equipment such as saws, sprayers, and trimmers.

NRD 220. Practicum In Natural Resources. 3-4 Credit.
The practicum experience allows students practice in a field specific to their interest and based upon strengths of the curriculum. The practicum, developed and defined in cooperation with faculty, department chair, the student, and the practicum supervisor, requires a 10-15 hours per week commitment above and beyond other required coursework. The practicum experience will be monitored with regular progress updates and then detailed and summarized by the student at the conclusion with a written assignment demonstrating
mastery and integration of previous NRD curriculum content. Possible practicum experiences may include, but are not limited to, working within one of the agricultural, environmental, nonprofit, or regional planning agencies, private industries, cities/towns, or educational institutions in the surrounding region. Prerequisites: Completion of at least 4 of the following courses: BIO 102, BIO 104, BIO 116, BIO 120, BIO 122, BIO 130, BIO 140, BIO 141, BIO 145, CHE 120, EAS 120, EAS 125, EAS 126, EAS 130, EGM 104, MGT 110.

NURSING

The Nursing Programs at Mount Wachusett Community College provide students with the opportunity to earn a Certificate in Patient Care, a Certificate in Practical Nursing, an Associate Degree in Nursing and an Associate Degree in Nursing -- LPN Bridge Option. Upon completion of one of the programs, students are prepared for entry level into a variety of healthcare settings as well as to transfer into programs seeking a higher level of credentialing in nursing. During the course of study, students will develop skills and competencies to prepare for the national licensure exams.

Registered Nurses (RNs) are responsible for providing nursing care, health maintenance, teaching, counseling, planning, restoration of optimal functioning, and comfort for the dignified death of those in their care (244 CMR 3.01). According to the Bureau of Labor and Statistics, the demand for RNs is, and will continue to be, great. MWCC nursing graduates have historically achieved a high pass rate on the National Council Licensure Exam for Registered Nurses (NCLEX-RN). The Nursing Degree program will prepare nurses for entry into nursing practice, and/or to transfer to four-year colleges or universities to pursue nursing. The program is approved by the Massachusetts Board of Nursing and accredited by the Accreditation Commission for Education in Nursing. To contact the Commission, call 404-975-5000.

Prerequisite Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>MAT 143</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIO 109 or 113</td>
<td>Biology I (or Life Science for Allied Health)</td>
<td>6-4</td>
</tr>
<tr>
<td>Year 1</td>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 111</td>
<td>Foundations Of Nursing</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BIO 205</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NUR 113</td>
<td>Nursing Care Of Children And Family</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NUR 114</td>
<td>Nursing Care Of The Childbearing Family</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PSY 110</td>
<td>Human Growth And Development</td>
<td>3</td>
</tr>
<tr>
<td>Year 2</td>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 220</td>
<td>Medical Surgical Nursing, Part I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>NUR 230</td>
<td>Psychiatric Nursing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 204</td>
<td>Trends In Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 222</td>
<td>Medical-Surgical Nursing Part II</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Humanities Elective</td>
<td>Humanit</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 70-74

1. Requirement may be met with completion of a math course equal to MAT 143 Statistics or higher with a grade of C+ or better.
2. These courses must be taken concurrent with or prior to, the nursing courses specified for that particular semester.
3. Recommended completion prior to program application
4. Humanities Electives: See Elective Courses by Abbreviation (p. 357).
   Preferred elective: HUM 212 Medical Ethics
Fulfills LAS elective
Not required if A&P I/II already completed

Application Deadline
This selective enrollment program requires additional application components. The selection process is competitive and space is limited. (See Selective Program Requirements for Nursing (p. 28).)

Requirements for Consideration
Applicants must meet certain academic standards. See Selective Program Requirements for Nursing (p. 28) for specific details or refer to the program application available on our website or through the Admissions Office.

Student Success Tips
Because of an extensive classroom/clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning nursing courses.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Special requirements
Applicants must meet all requirements for consideration before entering the program. Admitted students must meet technical standards and additional requirements including immunizations, CPR certification, liability insurance and health insurance.

As part of the coursework in the nursing program, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER admission/acceptance into the nursing program.

Students in all of MWCC’s nursing programs are required to have a 77% test grade average to progress throughout each semester of the program. The Test of Essential Academic Skills (TEAS) scores for the program must be within three years of the date of application to the program. Required Math and Science courses for the program must be within 10 years of the date of application to the program.

Clinical practicums are scheduled at facilities generally within one hour’s driving distance from MWCC’s Gardner campus. Students will need reliable transportation to get to their classroom/laboratory and clinical experiences.

The prospective student is encouraged to discuss any concerns with the Director of Nursing. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program. (See Selective Program Requirements for Nursing Programs (p. 28)).

Please note: All BIO, MAT (prerequisite), and NUR courses require a grade of C+ to be eligible for promotion to the next level.

Career Options/Earning Potential
Please click here for career options. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=nursing&SearchType=occupation)
Nursing Degree -- LPN Bridge Option (NUP) (selective)

The LPN-RN Bridge program is for the Licensed Practical Nurse that has six months of work experience (nursing license in good standing) and wants to complete the course requirements for an Associate Degree in Nursing. Registered Nurses (RNs) are responsible for providing nursing care, health maintenance, teaching, counseling, planning, restoration of optimal functioning, and comfort to those in their care. According to the Bureau of Labor and Statistics, the demand for RNs is, and will continue to be, great. MWCC nursing graduates have historically achieved a high pass rate on the National Council Licensure Exam for Registered Nurses (NCLEX-RN). The LPN-RN program will prepare nurses for entry into nursing practice as an RN, and/or to transfer to four-year colleges or universities to pursue nursing. The program is approved by the Massachusetts Board of Nursing and accredited by the Accreditation Commission for Education in Nursing. To contact the Commission, call 404-975-5000.

Prerequisite Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 111</td>
<td>Foundations Of Nursing</td>
<td>7</td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
<td>4</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics (or higher)</td>
<td>3</td>
</tr>
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Year 1

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PSY 110</td>
<td>Human Growth And Development</td>
<td>2</td>
</tr>
<tr>
<td>NUR 116</td>
<td>LPN to RN Transitions</td>
<td>4</td>
</tr>
<tr>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 205</td>
<td>Microbiology</td>
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Maymester/Summer I

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>NUR 115</td>
<td>Family Centered Nursing Care</td>
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Summer II

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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
<td>3</td>
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Fall

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NUR 220</td>
<td>Medical Surgical Nursing, Part I</td>
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Year 2

Spring

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 222</td>
<td>Medical-Surgical Nursing Part II</td>
<td>9</td>
</tr>
<tr>
<td>NUR 204</td>
<td>Trends In Nursing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 70

1. Fulfills LAS elective
2. These courses must be taken concurrent with or prior to the nursing courses specified for that particular semester
3. Humanities Electives: See Elective Courses by Abbreviation (p. 357). Preferred elective: HUM 212 Medical Ethics
4. Please note: These are full semester courses which begin in January.

Application Deadline

This selective enrollment program requires additional application components. The selection process is competitive and space is limited. See Selective Program Requirements for Nursing (p. 28).

Requirements for Consideration

Applicants must meet certain academic standards. See Selective Program Requirements for Nursing (p. 28) for specific details or refer to the program application available on our website or through the Admissions Office https://mwcc.edu/enroll/admissions/.

Student Success Tips

Because of an extensive classroom/clinical commitment, students are encouraged to complete most of the general education requirements prior to beginning nursing courses.
Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

**Transfer Options**

For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

Applicants must meet all requirements for consideration before entering the program. Students must meet technical standards and additional requirements including immunizations, CPR certification and liability insurance.

As part of the coursework in the nursing program, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER admission/acceptance into the nursing program.

Credit is given for the first semester of the ADN program (NUR 111, Foundations of Nursing) allowing applicants to enter second semester nursing courses. Students selected for the LPN -RN Bridge program will be given a competency exam on Maternity (OB) and Pediatrics. Those not meeting the required level of competency will be required to take NUR 115 Family Centered Nursing Care. Demonstrated proficiency through NLN examinations in Maternity (OB) and Pediatrics may also be considered for exemption from NUR 115 Family Centered Nursing Care.

Students in all of MWCC’s nursing programs are required to have a 77% test grade average to progress throughout each semester of the program. The Test of Essential Academic Skills (TEAS) scores for the program must be within three years of the date of application to the program. Required Math and Science courses for the program must be within 10 years of the date of application to the program.

Clinical practicums are scheduled at facilities generally within one hour’s driving distance from MWCC’s Gardner campus. Students will need reliable transportation to get to their classroom/laboratory and clinical experiences.

The prospective student is encouraged to discuss any concerns with the program director. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program. See Selective Program Requirements for Nursing (p. 28).

Please note that all BIO and MAT (prerequisite courses) require a grade of C+.

All NUR courses require a grade of C+ to be eligible for promotion to the next level.

**Career Options/Earning Potential**

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=registered+nurse&SearchType=occupation)
PRACTICAL NURSING CERTIFICATE (PN) (SELECTIVE) (JANUARY ENTRANCE)

Licensed Practical Nurses (LPNs) provide care for sick and injured patients under the direction of physicians and registered nurses. They take vital signs, prepare and give medications, apply dressings, observe physical and mental changes in patients, collect samples, maintain patient hygiene, and attend to physical, mental, and spiritual needs. MWCC’s Practical Nursing Certificate provides short-term education leading to a rewarding health care career. The college credits earned in this program may be applied toward a nursing degree. The PN Certificate is approved by the Massachusetts Board of Nursing accredited by the Accreditation Commission for Education in Nursing. To contact the Commission, call 404-975-5000.

Year 1

<table>
<thead>
<tr>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 105 Introduction To Psychology</td>
<td>3</td>
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<tr>
<td>NUR 102 Fundamentals Of Practical Nursing</td>
<td>11</td>
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<tr>
<td>BIO 152 Essentials of Anatomy and Physiology</td>
<td>4</td>
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<tr>
<td>NUR 104 Maternal Child Nursing</td>
<td>9</td>
</tr>
<tr>
<td>PSY 110 Human Growth And Development</td>
<td>3</td>
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<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
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<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>NUR 106 Contemporary Nursing for the Practical Nurse</td>
</tr>
</tbody>
</table>

Total Credits: 46

1 These courses must be taken concurrently or prior to the nursing courses specified for that particular semester
2 BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II may be taken in place of BIO 152 Essentials of Anatomy and Physiology. Grade must be a C+ or better.
3 Recommended completion prior to program application (advised within 1 year of application)

See the Nursing program student learning outcomes and technical standards.

Application Deadline

This selective enrollment program requires additional application components. The selection process is competitive and space is limited. (See Selective Program Requirements for Nursing.)

Requirements for Consideration

Applicants must meet certain academic standards. See Selective Program Requirements for Nursing for specific details or refer to the program application available on our website or through the Admissions Office.

Student Success Tips

Because of an extensive classroom/clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning nursing courses.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options

For transfer options, please click here. It is recommended that you also consult with your academic advisor.

Special Requirements

Applicants must meet all requirements for consideration before entering the program. Admitted students must meet technical standards and additional requirements including immunizations, CPR certification, liability insurance and health insurance.

As part of the coursework in the nursing program, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER admission/acceptance into the nursing program.
Students in all of MWCC’s nursing programs are required to have a 77% test grade average to progress throughout each semester of the program. The Test of Essential Academic Skills (TEAS) scores for the program must be within three years of the date of application to the program. Required Math and Science courses for the program must be within 10 years of the date of application to the program.

Clinical practicums are scheduled at facilities generally within one hour’s driving distance from MWCC’s Gardner campus. Students will need reliable transportation to get to their classroom/laboratory and clinical experiences.

The prospective student is encouraged to discuss any concerns with the Director of Nursing. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program. (See Selective Program Requirements for Nursing Programs).

Please note: All BIO, MAT (prerequisite), and NUR courses require a grade of C+ to be eligible for promotion to the next level.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=Practical+Nurse&SearchType=occupation&EdLevel=all)

PATIENT CARE CERTIFICATE (PCC)

The Patient Care Certificate provides students with the knowledge and skills necessary to gain entry-level employment in the health care field. Students are prepared to function as direct patient care providers with the attitude and ethics required of a member of the health care professions. This is a great opportunity for students to gain entry-level employment in the health care field prior to matriculating into a selective health care program. Students successfully completing HEA 115 Nurse Assistant Theory and HEA 116 Nurse Assistant Practicum meet the criteria to test for Red Cross CNA certification.

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<th>Year 1</th>
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<td><strong>Fall</strong></td>
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<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
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<tr>
<td>MAT 126</td>
<td>Topics In Mathematics (or higher)</td>
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<tr>
<td>HEA 115</td>
<td>Nurse Assistant Theory</td>
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<td>HEA 116</td>
<td>Nurse Assistant Practicum</td>
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<td>PSY 110</td>
<td>Human Growth And Development</td>
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<td>Patient Care Elective (see list below)</td>
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<td>BIO 152</td>
<td>Essentials of Anatomy and Physiology</td>
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<td>Patient Care Elective (see list below)</td>
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Patient Care Electives

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<td>HEA 117</td>
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<td>HEA 118</td>
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<td>HEA 119</td>
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See the Nursing general information for technical standards.

Student Success Tips

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.
Special Requirements

Students must have proof of immunizations, liability insurance and health insurance.

As part of the coursework in the certificate, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER registration into the course.

The prospective student is encouraged to discuss any concerns with the Director of Nursing. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the certificate.

Technical standards must be met with or without accommodation. HEA courses require a grade of C+ or better to be eligible for progression to the subsequent courses.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=direct+patient+care&SearchType=occupation)

STUDENT LEARNING OUTCOMES FOR PN

Upon receipt of a Certificate of Completion from this program, students shall have demonstrated the ability to meet these Program Competencies that guide the nursing curricula and practice:

- **Patient-Centered Care - Provide** holistic care that recognizes an individual’s preference, values, and needs and respects the client or designee as a full partner in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

- **Professionalism - Demonstrate** accountability for the delivery of standards-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

- **Leadership - Influence** the behavior of individuals or groups of individuals in a way that will facilitate the achievement of shared goals.

- **Systems-Based Practice - Demonstrate** an awareness of and responsiveness to the larger context of the health care system and the ability to effectively call on microsystems resources to provide care that is of optimal quality and value.

- **Informatics and Technology - Use** information and technology to communicate, manage knowledge, mitigate error, and support decision making.

- **Communication - Interact** effectively with patients and colleagues, fostering mutual respect and shared decision making, to enhance client satisfaction and health outcomes.

- **Teamwork and Collaboration - Function** effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development.

- **Safety - Minimize** risk of harm to patients and providers through both system effectiveness and individual performance.

- **Quality Improvement - Collects** data to monitor the outcomes of care processes to continuously improve the quality and safety of health care systems.

- **Evidence-Based Practice - Use** the best current evidence coupled with clinical expertise and consideration of patients’ preferences, experience and values to make practice decisions.

STUDENT LEARNING OUTCOMES FOR NU, NUE, AND NUP

Upon graduation from this program, students shall have demonstrated the ability to meet these Program Competencies that guide the nursing curricula and practice:

- **Patient-Centered Care - Manage** holistic care that recognizes an individual’s preference, values, and needs and respects the patient or designee as a full partner in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.
• **Professionalism - Validate** accountability for the delivery of standards-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

• **Leadership - Organize** the behavior of individuals or groups of individuals in a way that will facilitate the achievement of shared goals.

• **Systems-Based Practice - Support** an awareness of and responsiveness to the larger context of the health care system and of microsystems resources to provide care that is of optimal quality and value.

• **Informatics and Technology - Evaluate** information and technology to communicate, manage knowledge, mitigate error, and support decision making.

• **Communication - Relate** effectively with patients and colleagues, fostering mutual respect and shared decision making, to enhance client satisfaction and health outcomes.

• **Teamwork and Collaboration - Collaborate** effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development.

• **Safety - Minimize** risk of harm to patients and providers through both system effectiveness and individual performance.

• **Quality Improvement - Use** data to monitor the outcomes of care processes to continuously improve the quality and safety of health care systems.

• **Evidence-Based Practice - Integrate** the best current evidence coupled with clinical expertise and consideration of patients' preferences, experience and values to make practice decisions.

**TECHNICAL STANDARDS ¹ FOR PCC, PN, NU, NUE, AND NUP**

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering the nursing program must be able to demonstrate the ability to

1. Comprehend textbook material at the 11th grade level.
2. Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
3. Gather, analyze, and draw conclusions from data.
4. Stand for a minimum of two hours.
5. Walk for a minimum of six hours, not necessarily consecutively.
6. Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
7. Lift a 40-pound person or assist with a larger person and transfer the person from one location to another.
9. Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on machinery.
10. Read measurement units with or without corrective lenses.
11. Respond to spoken words, monitor signals, call bells, and vital sign assessment equipment with or without corrective devices.
12. Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
13. Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
14. Exhibit social skills appropriate to professional interactions.
15. Maintain cleanliness and personal grooming consistent with close personal contact.
16. Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

**HEA 101. Health And Disability In The Older Adult. 3 Credits.**

This course explores the relationship between the aging process and the development of disability in older adults. Factors contributing to disability will be addressed with emphasis given to understanding the normal aging process, the present healthcare system and its impact on older adults, the disabement process, and the development of skills in identifying disability risk. Students will be encouraged to discuss their own perspectives and experiences with the subject area and to work in a team with their peers during online discussions, as well as individually on course projects. At the completion of this course students will have gained new insights into the aging process as well as a better understanding of factors that can lead to disability in older adults. Open to all
HEA 103. Medical Interpretation. 4 Credits.
The goal of this course is to provide students with principles, methods, and competencies (both knowledge and skills-based) essential in the delivery of effective, reliable, and comprehensive interpreting in the clinical and human service field. It develops a theoretical and practical understanding of the multiple roles of the interpreter as well as the related ethical, cultural, and linguistic challenges in this evolving field. It explores contemporary issues in the field of medical interpretation including immigration trends, legal mandates, and certification.

HEA 104. Foundations Of Nursing Success (Formerly NUR 099). 3 Credits.
This course focuses on the basic concepts that form the foundation of nursing practice. It involves cooperative learning opportunities for exploring the practice of nursing and preparing students for the process and rigors of nursing education. In addition, this course will assist students in developing strategies to improve basic academic skills, study habits, time management, and concept of self with an aim of improving the likelihood of success once accepted into the nursing program. Through presentations, group work, lecture and discussion, fundamental knowledge for beginning nursing education is provided. Concepts integral to nursing practice, such as ethics, integrity, and requirements as stipulated in the Nurse Practice Act are also introduced. Prerequisites: MAT 092, RDG 098, or placement.

HEA 106. Exploring Health Careers: Charting a Plan for Success. 4 Credits.
This preparatory 4-credit course is designed for students who have an interest in healthcare which includes a 2-hour hands-on component. This course does not fulfill the requirements of a 4-credit lab course for transfer. The overall purpose of the course is for students to discern a healthcare career and formulate an integrated academic and career/life plan to meet that career objective. It will provide an exploration of healthcare careers, as well as deliver an overview of career planning as a lifelong process within the ever-changing medical landscape. Opportunities will be provided to explore, identify and align individual interests, attitudes, values, and skills with various healthcare occupational skills, requirements and work environments in healthcare. The psychomotor content will expose students to the physical contact element and hands-on skills required in any healthcare career. Topics may include, but are not limited to, CPR training, Narcan training, HIPPA training and Blood-borne Pathogens/PPE training and QPR training; it will provide a minimum of 3 healthcare providers as guest speakers. Additionally, this course will introduce personal and academic success strategies, financial literacy and non-cognitive skill development in areas of cultural competency, communication, health disparities, conflict resolution and professional behaviors. This course will provide students with the necessary skills to conduct a successful job search. Topics to be addressed include development of focused and realistic career objectives, job market strategies, resume & cover letter writing, career networking and interviewing skills. Prerequisites: ENG 101 placement or successful completion of ENG 098, FYE 101, RDG 098, or permission of division dean.

HEA 115. Nurse Assistant Theory. 3 Credits.
This course provides students with the theory and laboratory practice to safely care for clients in healthcare settings under the guidance of an instructor in a practicum course. Combined with successful completion of the practicum course, these students can safely care for clients in various healthcare settings. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HEA 116. Nurse Assistant Practicum. 2 Credits.
This course provides students the opportunity to practice and refine the nurse assistant theory and skills learned in the theory course. Students, under the supervision of a licensed nurse, will provide safe, basic care to clients in long term care settings. Students must have completed immunization record, including signed date of Hepatitis B series and negative PPD. Prerequisite: HEA 115 with a grade of C+ or higher.

HEA 117. Acute Care CNA Training. 3 Credits.
This course is designed to prepare Certified Nursing Assistants for employment in an acute care hospital setting. The curriculum provides a review of skills attained in the Nursing Assistant Training course including an emphasis on specialized acute care areas. These areas include medical, surgical, orthopedic, psychiatric, pediatric, and obstetric emphasis. This course offers a classroom and clinical competence based training, whereas each student participant will complete the required classroom, laboratory, and clinical training. Prerequisites: HEA 115, HEA 116 or current Certification as a Nursing Assistant in good standing, current CPR.

HEA 118. Home Health Aide. 2 Credits.
This course is designed to prepare Certified Nursing Assistants for employment in a home-like setting. The curriculum provides a review of skills attained in the Nursing Assistant Training course including a focus on providing care to individuals in their homes. This course will emphasize the importance of maintaining a safe and clean environment, recognizing emergencies and responding to such emergencies, and the physical, emotional, and developmental needs of those individuals served by the Home Health Agencies.
This course offers a classroom and laboratory competence based training, where each student participant will complete the required classroom and laboratory training. Prerequisites: Current CPR certification, Certification as a Nursing Assistant, HEA 115, HEA 116.

HEA 119. Rehabilitation Aide Training. 3 Credits.
This course is designed to provide students with the necessary skills to serve as a rehabilitation or fitness aide in an outpatient, sub-acute or fitness center setting. Students will learn clerical and clinical skills necessary to provide support within a fully supervised setting. Prerequisites: ENG 101.

HEA 201. Evidence-Based Practice for Health Professions. 3 Credits.
In this course, students with begin to attain the knowledge and skills necessary to engage in evidence-based practice in allied health professions. Students will explore and improve their critical thinking and analytical skills to support decision making in the clinical setting. Students will locate peer-reviewed research with instruction/support from college librarians. They will utilize the PICOS method to develop clinically-relevant questions to support evidence-based practice. This course culminates in the completion of a proposal and presentation for a research study. Prerequisites: ENG 102, MAT 143 (or higher) and completion of 45 credits.

NUR 102. Fundamentals Of Practical Nursing. 11 Credits.
This course provides an introduction to the role of the practical nurse in assisting to identify and meet the self-care needs of clients, patients and families/significant others. The framework for this course is in understanding nursing as an art and a science based on current evidence and best practices. Practical Nursing is modeled upon a professional body of knowledge that integrates concepts from the liberal arts, and the biological, physical, psychological and social sciences. Opportunities will be provided to learn and to begin to use various holistic theories to determine and implement appropriate nursing interventions. Content will include family theory and dynamics, diversity, communication skills, microbiology, nutrition, pharmacology, teaching and learning theory, problem-solving process, levels of prevention, legal-ethical nursing practice and caring behaviors. Students will have the opportunity to practice and learn skills in a classroom laboratory environment. Clinical experience will be provided in area hospitals, sub-acute units, or long-term care facilities. Students taking corequisite courses should plan to take BIO 152 and PSY 105 along with NUR 102 in the Spring, and PSY 110 and ENG 101 with NUR 104 in the summer. Prerequisites: MAT 126 or higher (not MAT 140) with a grade of C+ or higher; Corequisites: BIO 152 or BIO 203 and BIO 204 with a grade of C+ or higher; PSY 105, PSY 110, ENG 101 (or corequisites). Spring.

NUR 104. Maternal Child Nursing. 9 Credits.
This course focuses on the developmental self-care requisites, advocacy and health care management of culturally diverse individuals across the lifespan, primarily focused on maternal-child care and care of the pediatric patient. Content and skills developed in Fundamentals for Practical Nursing will be expanded to assist NUR 102 Fundamentals of Practical Nursing students to care for this client population. This course is divided into two components of nursing care needs: maternity and pediatrics. The clinical component of the course includes experiences in maternity and pediatric settings. Prerequisites: BIO 152, ENG 101 (or corequisite), NUR 102, PSY 105, PSY 110 (or corequisite). Summer.

NUR 106. Contemporary Nursing for the Practical Nurse. 13 Credits.
This final nursing course will assist the practical nursing student in learning to care for groups of adult patients, ranging from wellness management to those recovering from specific disorders or injury, including mental health issues to those individuals experiencing end of life issues. The course expands on previous learned information and introduces students to the principles of management within their scope of practice. Students employ the nursing process to deliver safe, comprehensive, individualized care in order to meet the self-care requisites of the assigned patient population. This course provides opportunities for clinical experiences in acute, sub-acute, and long-term care as well as outpatient and community based care. The goal of nursing care is to prevent illness, promote comfort, protect and restore health to unique individuals. Emphasis is placed on the expected role of the novice practical nurse in various health care settings. Prerequisites: NUR 104, ENG 101, PSY 110.

NUR 111. Foundations Of Nursing. 7 Credits.
This course introduces students to the concepts of nursing, healthcare, and the nursing process. Learning opportunities support student beginning level achievement of the MWCC Nursing Program Student Learning Outcomes. Emphasis is placed on Patient-Centered Care, Professionalism, Communication, Teamwork, Safety, and Evidence-Based Practice. Patient assessment, clinical reasoning, and basic nursing skills are developed through skills lab activities and clinical experiences in the long-term care setting. Prerequisites: MAT 143. Corequisites: BIO 203, ENG 101, PSY 105. Fall.

NUR 113. Nursing Care Of Children And Family. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in NUR 111, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to children and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of childhood health alterations, is emphasized as a crucial element of patient safety. Clinical experiences take place in a pediatric long-term care facility. Planning and delivering health education at a health fair for adolescents provides an opportunity to
NUR 114. Nursing Care Of The Childbearing Family. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in NUR 111, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to the childbearing woman, her fetus/newborn and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of the childbearing cycle and newborn, is emphasized as a crucial element of patient safety. Clinical experiences take place in postpartum and nursery units, with observational experiences on the birthing unit as available. Prerequisite: NUR 111. Corequisites: NUR 113, BIO 204, BIO 205, PSY 110. Fall.

NUR 115. Family Centered Nursing Care. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in professional practice and NUR 116, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to the childbearing woman, her fetus/newborn, children and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of childhood health alterations and the childbearing cycle, is emphasized as a crucial element of patient safety. Clinical experiences take place in a pediatric long-term care facility, postpartum and nursery units, with observational experiences on the birthing unit as available. Prerequisite: NUR 116. Summer.

NUR 116. LPN to RN Transitions. 4 Credits.
This hybrid course assists with the transition from the role of the LPN to the RN roles of provider of care, manager of care, and member within the discipline of nursing as an associate degree nurse. Emphasis is placed on the concepts of clinical competence and critical thinking in the planning and documentation of care for clients in a variety of health settings. Learning experiences are provided through independent study and simulation in the campus nursing lab setting. Prerequisites: BIO 203, BIO 204 (or corequisite), BIO 205 (or corequisite), ENG 101, NUR 111, PSY 105, PSY 110 (or corequisite). Spring.

NUR 204. Trends In Nursing. 3 Credits.
This course facilitates the transition from nursing education to practice. A historical perspective is presented to encourage students to understand the influence of nursing history on contemporary practice. Content is structured such that current issues in nursing are discussed. Students participate in small group projects or discussion board topics on selected issues as they relate to nursing. This activity is designed to synthesize the ten nursing Program Student Learning Outcomes: patient-centered care, professionalism, leadership, systems-based practice, informatics and technology, communication, teamwork and collaboration, safety, quality improvement and evidence-based practice. Concepts basic to the performance of entry level nursing are explored. Concepts can include role transition, employment consideration, the healthcare delivery system, leadership/management, delegation, conflict management, time management, advocacy, political action, ethical/legal principles, quality patient care, nursing informatics and research, workplace issues, and/or emergency preparedness. Service learning with class presentation is a required component. Prerequisites: ENG 102, NUR 220, NUR 230, SOC 103. Corequisites: NUR 222, Humanities Elective. Spring.

NUR 220. Medical Surgical Nursing, Part I. 6 Credits.
Medical-Surgical Nursing Part I focuses on the nursing care of patients with common recurring health problems. The organizing structure is based on human needs, the nursing process, the life cycle, and the three interrelated roles of provider of care, manager of care, and member within the discipline of nursing. The health problems discussed include fluid and electrolyte imbalances, care of the patient in the perioperative setting, musculoskeletal, respiratory, cardiovascular, and endocrine dysfunction. Emphasis is placed on continuing care needs of individual patients, implications of aging, and acute care skills. Concomitant clinical experiences are selected to enable the student to develop the knowledge, skill and attitude required to provide the nursing care

NUR 222. Medical-Surgical Nursing Part II. 9 Credits.
This course focuses on the nursing care of groups of patients experiencing common recurring health problems. The organizing structure is based on human needs, the nursing process, life cycle and the three interrelated roles of provider of care, manager of care, and member within the discipline of nursing. Life cycle concepts are reinforced as important considerations in planning patient care. The health problems discussed include gastrointestinal, neurological, hematologic/oncology, renal, reproductive, integumentary, and sensory dysfunction. Emphasis is placed on developing skill in managing the care of more than one patient, participating in the planning for the continuing care needs of patients in the acute care setting, and the refinement of nursing skills. Concomitant clinical experiences are selected to enable the student to develop the knowledge, skill and attitude required to provide the nursing care.
NUR 230. Psychiatric Nursing. 4 Credits.
This course focuses on the application of the nursing process to the care of clients who are experiencing mental health problems. Students are introduced to concepts of psychiatric mental health nursing, including principles of pathophysiology, psychopharmacology, and therapeutic communication. Clinical experiences allow students to apply these concepts in the care of clients with varying mental health problems. Emphasis is placed on the applicability of psychiatric nursing principles to the care of clients regardless of the setting or medical diagnosis. Prerequisites: BIO 204, BIO 205; NUR 113 and NUR 114 or NUR 115 and NUR 116; PSY 110. Corequisites: ENG 102, NUR 220, SOC 103. Fall.

PARAMEDIC TECHNOLOGY

The Paramedic Technology Certificate program is designed to provide current basic and/or advanced emergency medical technicians with one year of work experience or 75 documented patient contacts and the opportunity to advance to paramedic level certification. The curriculum has been designed to meet or exceed the content and competency of the latest edition of the National Emergency Medical Services Education Standards for Paramedics. These standards provide a detailed framework that prepares students to take the written and psychomotor National Registry of EMTs Paramedic Exam.

PARAMEDIC TECHNOLOGY (PAC) (SELECTIVE)

The Paramedic Technology Certificate program will seek programmatic accreditation through the Commission on Accreditation of Education Programs for Emergency Medical Services Professions (CoAEMSP) and the Massachusetts Office of Emergency Medical Services.

The Mount Wachusett Community College Paramedic Technology Certificate program has been issued a Letter of Review by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP Executive Office). This letter is NOT a CAAHEP accreditation status. It is a status signifying that a program seeking initial accreditation has demonstrated sufficient compliance with the accreditation standards through the Letter of Review Self Study Report (LSSR) and other documentation. Letter of Review status is recognized by the National Registry of Emergency Medical Technicians (NREMT) for eligibility to take the NREMT's Paramedic credentialing examination(s); however, it is NOT a guarantee of eventual accreditation.

To contact the CoAEMSP Executive Office:
8301 Lakeview Parkway Suite 111–312
Rowlett, TX 75088
214-703-8445
FAX 214-703-8992
www.coaemsp.org (http://www.coaemsp.org/)

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<td>HCC 203 Paramedicine III</td>
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<td>HCC 217 Trauma</td>
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<tr>
<td><strong>Year 2</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>HCC 220 Special Populations/EMS Operations</td>
<td>5</td>
</tr>
</tbody>
</table>
MOUNT WACHUSETT COMMUNITY COLLEGE

HCC 221 Capstone Paramedic Field Internship 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td>4</td>
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</tbody>
</table>

1  PAC students must complete HCC 221 with a grade of B- or better.

Campus
Offered at the Gardner campus. The program will be offered in the evening and some Saturdays.

Requirements for consideration
All applicants must have evidence of current Basic and/or advanced EMT certification. A minimum of one year of work experience or 75 documented patient contacts as an EMT. See Selective Program Requirements for Paramedic Technology Certificate Program (p. 32) for specific details or refer to the Paramedic Technology Certificate application (http://mwcc.edu/admissions/selective/) for complete details.

Student Success Tips
Because of an extensive classroom/clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning paramedic courses. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any Mount Wachusett Community College campus.

Special requirements
Applicants must meet all requirements for consideration before entering the program. Admitted students must meet technical standards and additional requirements including immunizations; CPR certification; liability insurance; health insurance; and a Criminal/Sexual Offender Records Information (CORI/SORI) check; fingerprinting; drug testing. Some of these may be done at the student’s expense. (See Selective Program Requirements for Paramedic Technology Certificate Program (p. 32).)

Please note: All BIO and HCC courses require a grade of B- or better to be eligible for promotion to the next level. Credits must be completed no more than ten years prior to the program's application deadline.

Career options/Earning potential
For career options, please click here. (https://mwcc.emsicareercoach.com/
#action=loadOccupationData&Search=paramedics&Featured=&WageLimit=0&OccSearchSort=&EdLevel=all&CourseSearchSort=&CourseLength=&CourseLocation=&CourseDepartment=&AssessmentId=new)

PROGRAM STUDENT LEARNING OUTCOMES FOR PAC
Upon successful completion of the Paramedic Technology Certificate students will be able to:

1. Demonstrate personal behaviors consistent with professional and employer expectations of an entry-level paramedic
2. Demonstrate technical proficiency in all skills necessary to fulfill the role of an entry level paramedic
3. Comprehend, apply and evaluate information relative to the role of an entry level paramedic
4. Demonstrate a passing score on the National Registry written and practical exams

TECHNICAL STANDARDS FOR PAC

1. Comprehend textbook material at the 11th grade level.
2. Communicate and assimilate information either in spoken, printed, signed or computer voice format.
3. Gather, analyze and draw conclusions from data acquired from patient treatment.
4. Stand for a minimum of two hours.
5. Walk for a minimum of six hours, not necessarily consecutively.
6. Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
7. Lift heavy loads (patients or equipment) that may exceed 100 pounds.

9. Manipulate gauges and valves associated with, for example, oxygen delivery.

10. Manipulate small devices such as syringes, IVs, resuscitation equipment, etc.

11. Read measurement units with or without corrective lenses.

12. Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.

13. Remain calm, rational, decisive, and in control at all times, especially during emergency situations.

14. Exhibit social skills appropriate to professional interactions.

15. Maintain cleanliness and personal grooming consistent with close personal contact.

16. Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

**HCC 111. Emergency Medical Technician I (Evening Only). 4 Credits.**

This is the basic course for Emergency Medical Technician/Ambulance that follows the guidelines outlined by the United States Department of Health Education and Welfare in conjunction with the National Traffic Safety Administration, Department of Transportation. This is a lecture, discussion, demonstration, and practical application of the knowledge and skill necessary to care for individuals who have life-threatening emergencies and injuries. This is the first half of the requirement for certification. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Evening only.

**HCC 112. Emergency Medical Technician II (Evening Only). 4 Credits.**

This is a continuation of EMT Emergency Medical Technician I, dealing with the care of individuals who have common medical emergencies, childbirth, problems of children as patients, lifting and moving patients, environmental emergencies, and extrication from automobiles. This course is the second half of the requirement for certification. Prerequisite: HCC 111 with a C grade or higher. Evening only.

**HCC 201. Paramedicine I. 3 Credits.**

This course is the first course designed for Emergency Medical Technicians (EMT) with at least one year as an EMT Basic or Advanced to obtain certification/licensure as a paramedic. Course concepts which will be taught to the National EMS Education Standards for paramedics will include: the history of EMS systems and development, workforce safety and wellness, EMS/EMD communications, life span development, medical/legal, documentation, therapeutic communications and public health. After completion of this course, the student will understand the origins and present-day structure of emergency medical care delivery systems. The paramedic’s roles and responsibilities and his or her relationship to the emergency medical services (EMS) system are explained, as well as the paramedic’s role in the quality-improvement process. Other EMS provider levels are described. The foundations necessary for being a competent, effective, caring, and ethical paramedic are presented. The interrelationships of the National Highway Traffic Safety Administration’s components of the EMS system are outlined, as well as the paramedic’s impact on research, data collection, and evidence-based decision making. The paramedic’s responsibilities as a student and a practitioner are also studied. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098 and FYE 101 or placement; HCC 111, HCC 112 or current State or National EMT Certification from another Accredited EMT Training Program and 1 year of experience/or 75 patient contacts; BIO 152, HCC 202, HCC 203 (corequisites). Fall.

**HCC 202. Paramedicine II. 4 Credits.**

This course is designed to be taught to the National EMS Education Standards for paramedics. Upon completion of this course, the student through didactic, critical thinking group assignments and laboratory skills demonstration and simulations will be able to describe and integrate scene and patient assessment findings with epidemiology and pathophysiology to form a field impression, to use clinical reasoning to develop a list of differential diagnosis and modify the assessment to formulate a treatment plan. These sections will include scene size up, primary survey, history taking, secondary assessment, use of monitoring and diagnostic devices, reassessment and integration to assessment findings to medicine. They will understand the significance and characteristics of respiratory emergencies in infant, child, and adult populations. Students should be able to demonstrate a fundamental comprehension of the following topics: respiratory anatomy and physiology, pathophysiology, signs and symptoms of various respiratory etiologies (eg, asthma, chronic obstructive pulmonary disease, pneumonia), and the assessment and management necessary to provide basic and advanced care in the prehospital setting. Students will then learn airway management, respiration, and artificial ventilation which integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of ensuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098, FYE 101 or placement; HCC 111, HCC 112; BIO 152, HCC 201, HCC 203 (corequisites). Fall.

HCC 203. Paramedicine III. 3 Credits.
This course will be taught to the National EMS Education Standards for Paramedics. After completion of the course the student will have an understanding of pathophysiology as it pertains to cellular changes in response to stressors. The understanding of what happens when the cellular system can no longer maintain homeostasis is a key component of patient evaluation and treatment. Medication administration includes fluids and electrolytes—balanced and imbalanced—and the processes of osmosis and diffusion, discusses the various types of IV solutions used in the prehospital setting and the techniques of IV therapy and intraosseous infusion. Describes the mathematical principles used in pharmacology and for calculating medication doses (bolus and maintenance infusion). Paramedics administer medication in different forms and a discussion of these routes for administering medications.

HCC 211. Paramedicine IV. 3 Credits.
This course taught to the National Educational Standards for Paramedics integrates comprehensive knowledge of pharmacology and shock and resuscitation to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient. Medication administration is a defining element of paramedic clinical practice. Paramedics use the science of pharmacology in a variety of ways, course content includes medication safety, medication legislation, naming, classifications, schedules, pharmacokinetics, storage and security, autonomic pharmacology, metabolism and excretion, mechanism of action, phases of medication activity, medication response relationships, medication interactions and toxicity. The student will also be able to integrate comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and prearrest states and apply comprehensive knowledge of the causes and pathophysiology of shock, respiratory failure, or arrest into the management of these conditions, with an emphasis on early intervention to prevent arrest. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098 and FYE 101 or placement; HCC 111, HCC 112; BIO 152, HCC 201, HCC 202 (corequisites). Fall.

HCC 212. Cardiology. 4 Credits.
Course concepts which will be taught to the National EMS Education Standards for Paramedics. Upon course completion the students will be able to describe the anatomy and physiology of the cardiovascular system as well as discuss epidemiological and pathophysiological conditions that impact this system. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of these conditions involving the cardiovascular system. They will be able to recognize signs and symptoms of common cardiovascular conditions and disorders, demonstrate relevant assessment techniques for cardiac function, perform diagnostic testing of cardiac status, and manage patients using techniques and skills for cardiovascular emergencies. Students will be able to discuss pathophysiology, risk factors, and common medications that may be seen in the cardiovascular emergency patient. They will be able to safely perform interventions and treatments for patients having a cardiovascular emergency. Students must successfully complete the American Heart Association Advanced Cardiac Life Support Course at the end of this program in order to go to Clinical 2. Prerequisites: BIO 152, HCC 201, HCC 202, HCC 203 with a B- or higher; HCC 212, HCC 213, HCC 214 (corequisites). Spring.

HCC 213. Medical Emergencies. 3 Credits.
The course concepts will be taught to the National EMS Education Standards for Paramedics. Upon course completion the students will be able to discuss epidemiological and pathophysiological conditions that impact these systems. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of medical emergencies related to the following systems: respiratory, neurological, endocrine, abdominal and gastrointestinal, diseases of the ears, eyes, nose and throat, genitourinary and renal systems, hematoletic, immunologic, toxicology, infectious diseases, OB/GYN and psychiatric emergencies and environmental emergencies. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: BIO 152, HCC 201, HCC 202, HCC 203 with a B- or higher; HCC 211, HCC 212, HCC 214 (corequisites). Spring.
HCC 214. Paramedicine Clinical I. 3 Credits.
Students will complete a minimum of 200 hours in a hospital/clinical or lab setting. Students will participate in instruction within the clinical experience under the supervision of a preceptor. Clinical rotations will be completed in the following areas: psychiatric, labor and delivery and the OR anesthesia department. Students must document and complete all classroom work, clinical time and skills performed to the complete program requirements. In addition the student must complete all of the minimum number of clinical hours and skills as outlined in the clinical manual. Each clinical rotation has different hours that are assigned to the students so as a result after meeting the minimum hours and skills the student must complete in class lab sessions to achieve 110 hours. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 211, HCC 212, HCC 213 (corequisites). Spring.

HCC 216. Paramedicine Clinical II. 5 Credits.
Students will complete a minimum of 200 hours in a hospital/clinical setting. Students will integrate instruction within the clinical experience under the supervision of a preceptor. Clinical rotation will be conducted in a variety of medical-related facilities critical care areas including emergency division intensive/critical care units and pediatric units. Several in class days will be scheduled to evaluate students clinical performance in the laboratory setting. Students must document all clinical time and complete program requirements. Students will demonstrate satisfactory performance of all program requirements and be successfully signed off by the program medical director at the end of this course. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 214 with a B- or higher; HCC 217 (corequisite). Summer.

HCC 217. Trauma. 3 Credits.
This course will be taught to the National Standards for Paramedic Training and will prepare the student for clinical and field internships. Students will be able to integrate comprehensive knowledge of trauma systems, mechanisms of injury, the causes, pathophysiology and basic and advanced management of traumatic injuries to the following areas: Soft tissue trauma and bleeding, burns, face and neck trauma, head and spine trauma, chest trauma, abdominal and genitourinary system trauma, orthopedic and environmental trauma. Students must also successfully complete and pass the National Association of EMT’s PreHospital Trauma Life Support Course. Prerequisites: HCC 211, HCC 212, HCC 213, HCC 214 with a B- or higher; HCC 216 and successful completion of PHTLS (corequisites). Summer.

HCC 220. Special Populations/EMS Operations. 5 Credits.
This course will be taught to the National Education Standards for Paramedics and upon course completion the students will be able to discuss epidemiological and pathophysiological conditions that impact these systems. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of medical and traumatic emergencies related to the following special patient populations including obstetrics, neonatal care, pediatrics, geriatrics and patient with special challenges. Students will develop an understanding of the anatomy, physiology, psychological development differences within these age groups. Students will demonstrate a foundational understanding of the various issues that are associated with the aging process, including physiological, psychological, and social changes that accompany advanced age. In addition the student will learn and demonstrate an understanding about EMS Operations and career development. Advanced Medical Life Support, Pediatric Advanced Life Support, Emergency Pediatric Care and Neonatal Resuscitation Program certifications must also be successfully completed for course completion. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the program. Prerequisites: HCC 216, HCC 217 with a B- or higher; HCC 221 (corequisite). Fall.

HCC 221. Capstone Paramedic Field Internship. 5 Credits.
Students will apply theory and acquired clinical skills while performing pre-hospital treatment under the supervision of experienced, certified paramedics during 150 hours of field internship. Students will complete 30 ALS patient contacts. 20 of these patient contacts must be as a team leader. The team leader patient contacts can only be completed in that 200 clock hours of this course once ALL classroom, lab, and clinical elements have been completed. Students will demonstrate satisfactory performance of all program requirements and be successfully signed off by the program medical director at the end of this course. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 216 and HCC 217 with a B- or higher; HCC 220 (corequisite). Fall.

PERSONAL TRAINING
The Personal Training Certificate Program at Mount Wachusett Community College provides students with the preparation needed for positions in a variety of fitness settings. Upon completion of the program, students will have the skills and competencies to begin a career or continue on to an Associate Degree.
PERSONAL TRAINING CERTIFICATE (PTC)

The Personal Training Certificate prepares students to complete a certification as a personal trainer. Students study anatomy and kinesiology, exercise physiology, nutrition, biomechanics of exercise, personal safety (including CPR), organizational and legal consideration of the fitness industry and practical application of individual and group fitness instruction. According to the Bureau of Labor Statistics, the employment of fitness trainers and instructors is expected to grow by 24 percent from 2010 to 2020, faster than the average for all occupations. Students have the option to begin a career after program completion or continue on to an associate degree.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>EXS 102 Principles Of Anatomy And Kinesiology</td>
<td>3</td>
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<tr>
<td>BIO 152 Essentials of Anatomy and Physiology</td>
<td>4</td>
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<tr>
<td>EXS 201 Exercise Science And Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>PER 130 Health, Fitness, And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>BIO 101 Introduction To Nutrition (formerly NUT101)</td>
<td>3</td>
</tr>
<tr>
<td>HEA 119 or EXS 103 Rehabilitation Aide Training (or Strength and Conditioning)</td>
<td>3</td>
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<tr>
<td>EXS 203 Exercise Testing And Program Design</td>
<td>4</td>
</tr>
<tr>
<td>EXS 210 Externship</td>
<td>2</td>
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</tbody>
</table>

Total Credits: 29

See Personal Training program student learning outcomes and technical standards.

Campus

This program is offered primarily on the Gardner campus.

Student Success Tips

This is a great opportunity for students to gain entry level employment in the healthcare field prior to applying to the PTA program. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

Transfer Options

This program is intended for immediate career entry. Courses completed as part of this certificate program can be applied to the Exercise and Sports Science Degree.

Career Options/Earning Potential

For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&amp;Search=personal+trainer&amp;SearchType=occupation)

Special Requirements

Technical standards must be met with or without accommodations. Students seeking to participate in EXS 210 Externship may be subject to meeting additional requirements which may include immunizations, a Criminal/Sexual Offender Records Information (CORI/SORI) check, fingerprinting, and drug testing. Some of these may be done at the student’s expense.

LEARNING OUTCOMES

Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.

• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.

• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.

• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

TECHNICAL STANDARDS ¹ FOR PTC

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

1. Comprehend textbook material at the 11th grade level.
2. Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
3. Gather, analyze and, draw conclusions from data.
4. Stand for a minimum of two hours.
5. Walk for a minimum of six hours, not necessarily consecutively.
6. Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
7. Lift a 40-pound person or assist with a larger person and transfer the person from one location to another.
9. Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on machinery.
10. Respond to spoken words, monitor signals, call bells, and vital sign assessment equipment.
11. Identify behaviors that would endanger a person's life or safety and intervene quickly in a crisis situation with an appropriate solution.
12. Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
13. Exhibit social skills appropriate to professional interactions.
14. Maintain cleanliness and personal grooming consistent with close personal contact.
15. Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

EXS 102. Principles Of Anatomy And Kinesiology. 3 Credits.
This course is intended to provide the student with a detailed overview of musculoskeletal structure and function and its application to a more complex analysis of human movement and skill. Introduction of concepts concerning tissue and organ system organization, basic biomechanics, and the nervous system and its relationship to the musculoskeletal systems will be studied. Identification and detailed palpation of the bones and muscles of the human skeleton will be correlated with joint and muscle function. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

EXS 103. Strength and Conditioning. 3 Credits.
Through participation in lecture and lab, students will develop the skills and understanding of muscle physiology and its relationship to resistance training. The course will provide students with an understanding of required adaptations for proper training, correct form and technique. Prerequisites or Corequisites: BIO 203 or EXS 102 or PTA 104. Spring.

EXS 201. Exercise Science And Nutrition. 4 Credits.
This course will explore the scientific dimensions of fitness and nutrition. The course will be aimed at the function of exercise on the skeletal muscles, the organs, and the systems of the body; the relationship of activity and fitness to health; as well as an overview of nutrition, energy balance, and weight control as it affects health. Prerequisites: BIO 152 or BIO 199 (or co-requisite). Fall.

EXS 203. Exercise Testing And Program Design. 4 Credits.
This course introduces students to testing protocols for individuals and groups. Students will be instructed in various fitness programs for flexibility, strength, and cardiovascular exercises. Students will also learn weight management techniques, as well as safety aspects of fitness exercises. The principles of adherence and motivation as well as communication and teaching techniques will be discussed and evaluated. Students will develop an understanding of legal issues and business structures, as well as professional responsibility. Prerequisites: EXS 102 or PTA 104, EXS 201. Spring.
EXS 210. Externship. 2 Credits.
This externship experience involves direct observation and interaction at selected facilities. Placements include fitness centers, wellness centers, physical therapy clinics and rehabilitation centers. Students obtain a basic knowledge and understanding of the practical aspects of the fitness industry through participation. One seminar hour and several hours of field experience per week are required. Prerequisites: EXS 102 and EXS 201. Spring.

PHYSICAL THERAPIST ASSISTANT
The Physical Therapist Assistant program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree and prepare to sit for the National Physical Therapy Exam (NPTE) as a physical therapist assistant.

Upon completion of the program, students are prepared to work under the direct supervision of a physical therapist in a variety of settings, including acute care and rehabilitation hospitals, long-term care facilities, private practices, school systems, and home care/VNA settings. During the course of study, students will develop skills and competencies in patient positioning and transfers; range of motion; therapeutic exercise; the safe application of therapeutic modalities such as heat, cold, electricity, and ultrasound; measurement, adjustment, and instruction in the use of ambulatory aids; improving cardiopulmonary function and endurance; and measuring of joint range of motion, muscle strength, length, girth, and vital signs. Upon successful completion of the PTA program, students will be able to demonstrate full understanding of the role of the PTA in the profession.

PHYSICAL THERAPIST ASSISTANT DEGREE (PTA) (SELECTIVE)
Physical therapist assistants implement treatment procedures in the rehabilitation of injured, ill, or debilitated individuals. The Physical Therapist Assistant Degree program prepares individuals to work in the healthcare field under the direct supervision of a physical therapist in a variety of settings. The program also prepares the student for the PTA licensure examination in the student's respective state of practice. The program is accredited by the Commission on Accreditation in Physical Therapy Education. For more information, please call 978-630-9287. Students applying after established deadlines will be considered for acceptance if seats are available. This selective enrollment program requires additional application components. The selection process is competitive and space is limited. (See Selective Program Requirements for Physical Therapist Assistant Degree (p. 34)).

Prerequisite Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
<td>3</td>
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<tr>
<td>BIO 152</td>
<td>Essentials of Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>MAT 143</td>
<td>Statistics</td>
<td>3</td>
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<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>Fall</td>
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<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
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<tr>
<td>PTA 103</td>
<td>Introduction to Physical Therapist Assisting</td>
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<tr>
<td>PTA 104</td>
<td>Applied Anatomy And Kinesiology</td>
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<td>PTA 120</td>
<td>Integrated Clinical Experience I</td>
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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
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<tr>
<td>PTA 111</td>
<td>Clinical Orthopedics for the PTA</td>
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<tr>
<td>PTA 121</td>
<td>Integrated Clinical Experience II</td>
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<td>PTA 139</td>
<td>Human Disease And Pathology 2</td>
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<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td>Fall</td>
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<tr>
<td>PSY 110</td>
<td>Human Growth And Development</td>
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<td>PTA 112</td>
<td>Therapeutic Modalities</td>
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<td>PTA 113</td>
<td>Advanced Rehabilitation Techniques</td>
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<td>PTA 114</td>
<td>Neurophysiological Techniques</td>
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<tr>
<td>PTA 116</td>
<td>Clinical Practicum I 3</td>
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<tr>
<td>PTA 118</td>
<td>Clinical Management And Healthcare Issues</td>
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<td>Humanities Elective 4</td>
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<tr>
<td>PTA 119</td>
<td>Clinical Practicum II 3</td>
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</table>

Total Credits: 69
BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II may be taken in place of BIO 152 Essentials of Anatomy and Physiology. Grade must be a C+ or better.

PTA majors, consult advisor.

A grade of C+ or better is required.

Humanities Electives: See Elective Courses by Abbreviation (p. 357).

See Physical Therapist Assistant program student learning outcomes and technical requirements.

**Campus**
Offered at Gardner campus.

**Requirements for Consideration**
Applicants must meet certain academic standards. See Selective Program Requirements for Physical Therapist Assistant Degree (p. 34) for specific details or refer to the program application available on our website or through the admissions office.

**Student Success Tips**
Interested applicants are encouraged to declare the Allied Health Concentration as their program of study, so they can take courses needed to meet requirements for consideration for the PTA program. Once these requirements are completed, students can then apply for acceptance into the PTA program.

Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site such as a local public library, public college or at any Mount Wachusett Community College campus.

**Transfer Options**
For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**Special Requirements**
PTA students are required to keep pace with the incoming class and must take courses in sequential order. Applicants must meet all requirements for consideration before entering the program.

Students seeking to participate in the Physical Therapist Assistant program may be subject to meeting additional technical standards and requirements which may include immunizations, CPR certification, liability insurance and health insurance.

As part of the coursework in the PTA program, students are required to complete practical hours in clinical facilities working with patients/clients under the supervision of licensed providers. Some clinical sites require the student obtain certain background checks (state/federal criminal or sexual offender), fingerprinting and/or drug testing before participating in clinical experiences. Costs for certain criminal background checks and drug testing are the responsibility of the student. All screenings and background checks are completed AFTER admission/acceptance into the PTA program.

The prospective student is encouraged to discuss any concerns with the program director. A positive background check, positive drug screen or refusal to comply in these background checks or drug testing will result in the inability to participate in clinical experiences required in the program. (See Selective Program Requirements for Physical Therapist Assistant Degree (p. 34).)

BIO 152 Essentials of Anatomy and Physiology or BIO 203 Anatomy and Physiology I (formerly BIO 199) and BIO 204 Anatomy and Physiology II must be completed no more than ten years prior to the program’s application deadline or concurrently with PTA coursework in semesters I and II. Please note that all BIO and PTA courses require a grade of C+ or better in order to be eligible for promotion to the next level.

**Career options/Earning potential**
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadSearchResults&Search=physical+therapist+assistant&SearchType=occupation)

**PROGRAM STUDENT LEARNING OUTCOMES FOR PTA**
Upon graduation from this program, students shall have demonstrated the ability to:

- Consistently demonstrate appropriate role utilization of the physical therapist assistant in the application of established treatment interventions as directed by the primary physical therapist.
• Integrate into practice the Guidelines of Ethical Conduct/Standards of Practice for PTAs in an effort to assure safe and proper conduct for all interactions within the profession.
• Demonstrate entry-level competence and skill in the implementation of a comprehensive treatment plan including appropriate modifications according to patient response, patient practitioner interactions, and participation in discharge planning and follow-up.
• Report and communicate regularly with supervising physical therapists regarding patient progress and treatment modifications in accordance with changes in patient status.
• Perform with entry-level competence data collection procedures, integrating the findings of such procedures to the patient’s plan of care.
• Identify and demonstrate consistent behavior of interactions and teaching with healthcare professionals, patients, and their families while providing the desired psycho-social support among diverse populations.
• Demonstrate effective and accurate written and verbal communication skills in documenting the relevant aspects of patient care, including patient response and progress.
• Integrate information obtained from professional literature review into clinical practice as evidenced-based practitioners of physical therapy interventions in keeping with the intent of the APTA’s Vision 2020 statement.
• Demonstrate consistent commitment to lifelong learning through regular participation in continuing education.
• Demonstrate successful performance on state licensure examination.
• Obtain employment as entry-level physical therapist assistant.

TECHNICAL STANDARDS 1 FOR PTA

For general information about technical standards and accommodation, see Technical Standards. (p. 34)

Students entering this program must be able to demonstrate the ability to:

1. Comprehend textbook material at the 11th grade level.
2. Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
3. Gather, analyze and, draw conclusions from data.
4. Stand for a minimum of two hours.
5. Walk for a minimum of six hours without device or apparatus, not necessarily consecutively.
6. Stand, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
7. Lift a 40-pound person or assist with a larger person and transfer the person from one location to another.
9. Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on machinery.
10. Read measurement units with or without corrective lenses.
11. Respond to spoken words, monitor signals, call bells, and vital sign assessment equipment with or without corrective devices.
12. Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
13. Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
14. Exhibit social skills appropriate to professional interactions.
15. Maintain cleanliness and personal grooming consistent with close personal contact.
16. Function without causing harm to self or others if under the influence of prescription or over-the-counter medications.

PTA 103. Introduction to Physical Therapist Assisting. 4 Credits.
This course is designed to provide the student with an introduction to Basic Patient Care Skills: Preparation for Patient Care, Aseptic Techniques, Turning & Positioning, Wheelchairs, Vital Signs & Anthropometrics, Transfer Activities, Gait Training with Ambulatory Assistive Devices, and Introduction to Documentation, the Medical Record and Clinical Communication. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement; Enrollment in PTA; Corequisites: BIO 152, PTA 120. Fall.

PTA 104. Applied Anatomy And Kinesiology. 4 Credits.
Identification and detailed palpation of the bones and muscles of the human skeleton will be correlated with joint and muscle function. Introductory concepts concerning tissue organization, basic biomechanics, and the nervous system will be studied. Basic concepts
of musculoskeletal structure and function will be applied to a more complex analysis of human movement and skill. Prerequisite: BIO 203 (or corequisite) with a C+ or better. Fall.

**PTA 111. Clinical Orthopedics for the PTA. 10 Credits.**
This course covers the assessment and treatment strategies that are applicable to orthopedic and pulmonary patients that are part of entry-level practice as a PTA. Normal and pathomechanics of the neuromusculoskeletal and respiratory systems are covered in detail. Etiology and physical therapy management of clinical dysfunctions commonly encountered in a general orthopedic and pulmonary patient population will be studied. Normal and pathological gait will be analyzed. The assessment skills of auscultation, goniometry, manual muscle testing, and tests for muscle length including instructor demonstrations of special tests for the spine and extremities will be covered in the laboratory component of this course. Assessment of residual limb, stump wrapping skills, gait training, and prosthetic fit/management are included. This course also presents the theory and application of traditional therapeutic exercise including ROM, stretching, resistive exercise, balance and coordination and cardiovascular/aerobic activity. Evidence-based practice guidelines regarding traditional exercise suggestions for selected neuromusculoskeletal and pulmonary diagnoses and home exercise program instruction will also be covered. Prerequisite: Enrollment in PTA; PTA 103, PTA 104, BIO 152 with a "C+" or better. Spring.

**PTA 112. Therapeutic Modalities. 4 Credits.**
This course is designed to present the physiological basis, clinical application and specific techniques of administration for the following modalities: infrared heating and cooling, ultraviolet light, deep heating, intermittent compression, mechanical traction, electrical stimulation for analgesia, muscle contraction and specialized currents, iontophoresis, biofeedback, and LASER. Emphasis will be placed on the indications and precautions and contraindications of each to assure patient safety and treatment effectiveness. Prerequisite: PTA110. Fall.

**PTA 113. Advanced Rehabilitation Techniques. 3 Credits.**
This course presents an advanced view of rehabilitation. Specific patient populations and techniques associated with the treatment of these populations will be addressed. Topics include but will not be limited to pathological gait, cardiac rehabilitation, advanced soft tissue approaches to the spine and extremities, an introduction to extremity joint mobilization (non-laboratory), aquatics and geriatrics. A problem based oriented approach using specific case studies representing targeted patient population will be utilized. An evidence-based practice research project is required. Prerequisite: PTA110. Fall.

**PTA 114. Neurophysiological Techniques. 4 Credits.**
This course presents the theoretical framework of neurodevelopmental and neurophysiological approaches to therapeutic exercise. Normal movement, motor development, and motor learning are emphasized. Sensorimotor dysfunctions, characteristic limitations, and abnormal motor movements are discussed. The basic approaches to neurophysiological techniques and their rationale are included. These traditional approaches will be compared to contemporary theories of motor development, motor learning, and motor control. Prerequisite: PTA110. Fall.

**PTA 115. Clinical Practicum II. 5 Credits.**
This is the second of three comprehensive clinical experiences in a physical therapy setting. The purpose of this intermediate experience is to apply, integrate, and perform learned clinical skills on patients under the supervision of a licensed physical therapist and/or licensed physical therapist assistant. The emphasis of this experience is to integrate previously learned and practiced PTA skills, therapeutic modalities, advanced therapeutic techniques, and neurophysiological techniques into an established physical therapy program. Typical practice settings may include acute care hospitals, private practice, sports developmental centers, skilled nursing centers, geriatrics, pediatrics, VNA, inpatient rehabilitation centers, VA hospitals, and psychiatric centers. Prerequisites: PTA 112, PTA 113, PTA 114. Spring.

**PTA 116. Clinical Practicum III. 5 Credits.**
This course is the third of three comprehensive clinical experiences in a physical therapy setting. The purpose of this final experience is to apply, integrate, and perform learned clinical skills on patients under the supervision of a licensed physical therapist and/or licensed physical therapist assistant. The emphasis of this experience is to integrate previously learned and practiced PTA skills, special topics, and clinical management and health care issues into the delivery of a comprehensive physical therapy treatment program. Typical practice settings may include acute care hospitals, private practice, sports developmental centers, skilled nursing centers, geriatrics, pediatrics, VNA, inpatient and outpatient rehabilitation centers, VA hospitals, and psychiatric centers. Prerequisites: PTA 116, PTA117, PTA 118. Spring.

**PTA 118. Clinical Management And Healthcare Issues. 1 Credit.**
Key non-patient care-related topics are presented concerning issues of importance to the physical therapist assistant. Course topics include PTA licensure, job search (cover letter, resume writing, and interviewing), the ADA, insurance regulations, supervision/delegation issues for the PTA, quality assurance, and risk management. Prerequisites: PTA 112, PTA 113, PTA 114. Spring.

**PTA 119. Clinical Practicum III. 5 Credits.**
This course is the third of three comprehensive clinical experiences in a physical therapy setting. The purpose of this final experience is to apply, integrate, and perform learned clinical skills on patients under the supervision of a licensed physical therapist and/or licensed physical therapist assistant. The emphasis of this experience is to integrate previously learned and practiced PTA skills, special topics, and clinical management and health care issues into the delivery of a comprehensive physical therapy treatment program. Typical practice settings may include acute care hospitals, private practice, sports developmental centers, skilled nursing centers, geriatrics, pediatrics, VNA, inpatient and outpatient rehabilitation centers, VA hospitals, and psychiatric centers. Prerequisites: PTA 116, PTA117, PTA 118. Spring.

**PTA 120. Integrated Clinical Experience I. 2 Credits.**
This integrated clinical experience (ICE) provides students the opportunity for clinical observations and to enhance skill acquisition of the techniques learned in PTA 103 and PTA 104. The students will be exposed to early patient interaction, physical therapy
professionals, and other healthcare professionals. Classroom activities will require student self-reflection on clinical and professional skills. Additional classroom topics include an introduction to Evidenced-Based PT Practice, Ethics and Professionalism, PTA Licensure, Cultural Sensitivity, the APTA and Stress Management. Prerequisites: Enrollment in PTA; RDG 098, MAT 092, ENG 098, FYE 101, or placement; Corequisites: BIO 152, PTA 103, PTA 104. Fall.

**PTA 121. Integrated Clinical Experience II. 1 Credit.**
This integrated clinical experience (ICE) provides students the opportunity for clinical observations and to enhance skill acquisition of the techniques learned in PTA 111 and PTA 139. The students will be exposed to early patient interaction, physical therapy professionals, and other healthcare professionals. Classroom activities will require student self-reflection on clinical and professional skills. Prerequisites: Enrollment in PTA; BIO 152, PTA 103, PTA 104, PTA 120. Corequisites: PTA 111, PTA 139. Spring.

**PTA 139. Human Disease And Pathology. 4 Credits.**
This course will cover the etiology, natural course, and termination of disease in order to assist the student in understanding the cause and effect relationship between disease and disability. Emphasis will be placed on the most common diseases and disabilities which the student will likely encounter in the practice of physical therapy and/or massage therapy. Prerequisites: BIO 203 and BIO 204 (or corequisite). Spring.

**PHARMACY**

The Pharmacy Science program at Mount Wachusett Community College provides students with the opportunity to earn an Associate in Science Degree. Upon completion of the program, students are prepared for the rigors of a four-year institution to complete a baccalaureate degree. The Pharmacy Science transfer program offers a student the opportunity to explore biology and chemistry, while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

**PHARMACY (PHAR)**
The Pharmacy degree at Mount Wachusett Community College provides students with the opportunity to earn an Associate in Science Degree for the purpose of transfer to a four-year institution to complete a baccalaureate degree. The Associate's in Pharmacy Degree offers a student the opportunity to explore biology and chemistry, while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences. The Associate's in Pharmacy Degree includes the MassTransfer Block. A fall semester start is recommended for several sequential science courses in biology, chemistry, and physics.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
</tr>
<tr>
<td>CHE 107</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MAT 163</td>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>BIO 109</td>
<td>Biology I</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>BIO 110</td>
<td>Biology II</td>
</tr>
<tr>
<td>CHE 108</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>MAT 211</td>
<td>Calculus I</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 205</td>
<td>Microbiology</td>
</tr>
<tr>
<td>CHE 207</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>1</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>SOC 103</td>
<td>Introduction To Sociology</td>
</tr>
<tr>
<td>HUM 212</td>
<td>Medical Ethics</td>
</tr>
<tr>
<td>CHE 208</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td>62</td>
</tr>
</tbody>
</table>
1 Humanities Electives: See Elective Courses by Abbreviation (p. 357).
2 Capstone course.

See Pharmacy program student learning outcomes and technical standards.

**Campus**
This program is offered on the Gardner campus only.

**Transfer Options**
For transfer options, please click here. (p. 62) It is recommended that you also consult with your academic advisor.

**MASSTransfer**
Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

**Special Requirements**
Technical standards must be met with or without accommodations.

**PROGRAM STUDENT LEARNING OUTCOMES FOR PHAR**
Upon graduation from this program, students shall have the ability to:

- To work safely in a laboratory environment.
- Collect, record and organize scientific data in keeping with the goals of the experiment.
- Manipulate and use scientific tools, such as the microscope, pH meter, measurement tools, glassware and other scientific instrumentation. This would include independently conducting an experiment using written directions such as lab manuals or Standard Operating Procedures as a guide.
- Use mathematical tools as applied to science. This could include building and interpreting graphs, using equations and formulas to solve problems, and fitting data to a mathematical model.
- Demonstrate basic science literacy needed for entry level work in a health science field or to prepare for transfer to a baccalaureate institution if desired, including an understanding of human anatomy and physiology, microbiology, and basic biological and chemical processes.

**TECHNICAL STANDARDS FOR PHAR**

1 For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Differentiate by touch: hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
- Respond promptly to spoken words, as well as monitor signals and instrument alarms.
- Identify behaviors that would endanger a person’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Manipulate small parts, and make fine hand adjustments to machines and test equipment.
- Operate a computer.

**PROFESSIONAL WRITING**
The Professional Writing Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The Professional Writing Track offers students the opportunity to focus on developing and refining writing skills across a variety of formats and addressing a wide range of audiences while completing a core curriculum used for transfer. Students gain a strong foundation in humanities, social sciences, math, and natural sciences, which enables them to transfer to competitive four-year colleges and universities.

**PROFESSIONAL WRITING TRACK (LAPW)**

**A DEGREE IN LIBERAL ARTS AND SCIENCES**

Develop excellent writing and communications skills that open doors across any academic or professional field. Courses such as Journalism, Technical Writing, and Creative Writing provide foundational skills, and a range of professional electives allow students to choose from courses like Public Relations, Digital Photography, and Scriptwriting that enhance their academic program and further their individual goals. Students will benefit from hands-on involvement in the college’s newspaper while completing a core curriculum used for transfer. This program provides a strong background for students to transfer to a four-year institution or immediately enter professional employment. Students who transfer to a four-year college or university may choose to major in a wide range of disciplines, including writing, English, journalism, the humanities, or the social sciences.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 241 Journalism I: Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143 Statistics (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>
| Lab Science Elective | 4
| General Elective I | 3       |

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102 College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 106 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113 Speech (formerly THE113)</td>
<td>3</td>
</tr>
</tbody>
</table>
| Behavioral Social Science Elective | 3
| General Elective II | 3       |

### Year 2

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 239 Creative Writing I</td>
<td>3</td>
</tr>
</tbody>
</table>
| Literature Elective | 3
| Science Elective | 3-4
| Behavioral Social Science Elective | 3
| Professional Elective I | 3       |

#### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 290 Advanced Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>Culturally Diverse Non-behavioral Social Science Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Culturally Diverse Literature Elective (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Professional Elective II (see list below)</td>
<td>3</td>
</tr>
<tr>
<td>Professional Elective III (see list below)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 61-62

1. Science (3 or 4 credits)/Lab Science Electives (4 credits): See Elective Courses by Abbreviation (p. 357).
2. Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
3. Literature Electives: See Elective Courses by Abbreviation (p. 357).

### Professional Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 127 Computer Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ENG 240 Creative Writing II</td>
<td>3</td>
</tr>
</tbody>
</table>
ENG 242 | Journalism II: Advancing Newswriting | 3
ENG 251 | Introduction To Public Relations | 3
ENG 283 | Journalism Practicum | 3
GID 104 | Digital Imaging (Photoshop) (Formerly CGD 104) | 3
GID 109 | Introduction To Web Design (Formerly CGD 240) | 3
MRT 110 | Fundamentals of Video Production | 3
MRT 208 | Writing For Visual Media (Formerly Scriptwriting) | 3
PHO 115 | Introduction To Digital Photography | 3

Culturally Diverse Literature Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 236</td>
<td>Modern Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 261</td>
<td>The Short Story</td>
<td>3</td>
</tr>
</tbody>
</table>

Culturally Diverse Non-behavioral Social Science Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 129</td>
<td>World And Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>American Ethnic History</td>
<td>3</td>
</tr>
</tbody>
</table>

Student Success Tips

Eligible LAPW students should consider entering MWCC’s Honors Program. Honors Program students benefit from a challenging, highly individualized academic experience, a tuition waiver during their final semester, active recruitment by four-year colleges and universities, and the use of the Honors Center. Also, because of the program’s Commonwealth Honors Program status, all MWCC Honors courses are transferable as Honors courses within the Mass public higher education system, and MWCC graduates are guaranteed acceptance into the Honors Programs of these colleges and universities. See the Honors Program (p. 58) for more information.

Transfer Options

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

MASSTRANSFER

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/)

PROGRAM STUDENT LEARNING OUTCOMES FOR LAPW

Upon graduation from this program, students shall have the ability to:

• Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
• Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.

• Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.

• Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.

• Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.

• Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.

• Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

CAPSTONE COURSE FOR LAS

ENG 290 LAS Capstone: Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

TECHNICAL STANDARDS FOR LAPW

For General information about technical standards and accommodation, see technical standards. (p. 82)

Students entering this program should be able to:

• Comprehend textbook material at the 11th grade level.

• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.

• Gather, analyze, and draw conclusions from data.

• Distinguish the movement of meter displays, positions of knobs on equipment, and images through camera lenses and/or small camera screens.

• Differentiate content, tones, and words in sound recordings.

• Work as a member of a team.

• Appropriately use production equipment with or without accommodations.

ENG 096. Writing Readiness. 3 Credits.

This course is designed to develop the student's skills in writing, focusing upon vocabulary development, standard English grammar, spelling, and usage. Student strengths and weaknesses in these areas are determined through initial testing. Upon completion of this course, the student will possess spelling and vocabulary development skills, use grammatically correct sentence structures, punctuate sentences correctly, use appropriate word choice, and develop a basic comprehensive essay. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: None.

ENG 097. Writing Seminar. 1-3 Credit.

The purpose of this course is to build confidence through intensive writing practice. Developmental students will learn to recognize certain standard elements of effective writing: the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. In-class writing workshops, group work and discussion, supplemental tasks and one-on-one instruction will support students as they work to improve as writers. Prerequisites: Placement; corequisite with ENG 101 required.

ENG 098. Fundamentals of Writing. 3 Credits.

Fundamentals of Writing is designed to help the basic writer recognize certain standard elements of effective writing: mainly the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. Students will be introduced to the writing process and will produce at least five (5) essays of at least 2-4 pages each by the end of the semester. Other forms of writing, such as journals, free-writes, and active learning exercises emphasizing student success skills, may also be included. At the end of the course, students must write a successful final essay to move forward to ENG 101. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: ENG 096 or placement. Corequisite: FYE 101. Institutional credit only.
ENG 101. College Writing I. 3 Credits.
Students will develop college-level English writing skills with an emphasis on the writing process, an awareness of purpose and audience, and an understanding of grammar, punctuation, and sentence structure. Reading selections will foster improved writing skills and critical and analytical thinking. By semester's end, students will have produced at least four essays totaling 12-15 pages of original, polished prose, as well as additional writing in varied forms, such as journals, free-writes, peer review, reading responses, and rough drafts. Students are required to successfully complete the MWCC Library Research Skills MOOC and will write at least one paper that incorporates outside source material. Working with an instruction librarian on the research project is encouraged. Prerequisites: ENG 098, RDG 098, FYE 101, or placement.

ENG 102. College Writing II. 3 Credits.
Writing about literary works will improve student writing, revision, critical thinking, and reading skills. The readings will be selected from a range of texts including fiction, non-fiction, poetry and drama. Evaluation and analysis will be accomplished through a variety of writing assignments, for example, discussion board posts, in-class writing, journals, free-writing, essay exams, and rough drafts of formal essays. By semester's end, students will have produced several pieces of writing totaling 12-15 pages of original, polished prose. At least one of the essays will incorporate library research that is cited and documented appropriately. Prerequisite: ENG 101.

ENG 103. American Literature I. 3 Credits.
This course surveys significant American writings from 1620 through the 19th century covering the following eras: Puritans, Colonial/Revolution, Enlightenment/Romantic and Transcendentalist/Abolitionist. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Bradford, Rowlandson, Jefferson, Franklin, Emerson, Thoreau, Whitman, Fuller, Hawthorne, Melville, Douglass, Dickinson. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Spring.

ENG 104. American Literature II. 3 Credits.
This course surveys significant American writing from 1890 to the present covering the following: Realism, Modernism/Harlem Renaissance, Mid-20th Century, Post-Modernism/Multiculturalism/Contemporary. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Twain, Chopin, Frost, Stevens, Moore, Hughes, O’Neill, Miller, Wilson, Ginsberg, Rich, LeGuin, Anzaldua. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Spring.

ENG 200. The Literature of Resistance. 3 Credits.
This course will explore expressions of resistance from a variety of cultures and historical periods. Students will read works that take a stand against or show characters taking a stand against political, social, or economic realities. Assigned readings may include works

**ENG 221. Women's Literature. 3 Credits.**
This course will consider the essential issues raised in literature concerning the role and image of women in society. Included will be essays, short stories, and novels by authors such as Kate Chopin, Willa Cather, Virginia Woolf, and Toni Morrison. Prerequisite: ENG 102 or permission of division dean. Spring.

**ENG 223. Contemporary Global Literature. 3 Credits.**
Contemporary global literature includes twentieth- and twenty-first-century literatures, other than British and American, either written in English or read in translation. Readings represent a variety of cultures and belief systems and include world regional and diasporic literatures such as African, Asian, Latin American, Middle Eastern, etc. Emphasis is placed on interpreting literary texts in relation to their cultural, political, and historical contexts, as well as the conventions of literary movements and genres such as postcolonialism, magical realism, science fiction, etc. Through readings, discussions, and several written assignments, students will expand their awareness, understanding, sensitivity, and empathy in regard to differences between other cultures’ perspectives and their own. Close reading exercises and other scaffolded writing assignments will strengthen skills in close reading and literary analysis, culminating in a thesis-driven essay interpreting one or more works of literature. Additional assignments may include a group research presentation, an author interview writing project, and a final essay exam. By the end of the semester, students will have produced 12-15 pages of polished writing. Prerequisites: ENG 102 or permission of the Division Dean.

**ENG 224. Mystery Fiction. 3 Credits.**
This course studies the history and nature of the mystery story from the works of Poe to such present day masters as Agatha Christie and Tony Hillerman. Students will examine both the relationship of mystery fiction to the culture of its time and the changing role of the detective hero. Students will study the techniques of the mystery writer and the relationship between mystery fiction and "serious" literature. Works by such authors as Poe, Arthur Conan Doyle, Hammett, Chandler, Christie, and Hillerman are included. Prerequisite: ENG 102 or permission of division dean. Fall.

**ENG 227. British Literature I. 3 Credits.**
This course is a study of selected works by major writers in British literature through the Restoration and the 18th century. Emphasis is placed on a responsive and critical reading as well as on literary and historical background. Includes works by, but not limited to, Chaucer, Shakespeare, Milton, Pope, and Johnson. Prerequisite: ENG 102 or permission of division dean. Fall.

**ENG 233. Science Fiction. 3 Credits.**
As a literary genre, science fiction – like science – is continually changing and redefining itself, creating modern myths that show us our greatest hopes and our deepest fears about humanity, science, technology, and the future, as well as examining contemporary issues around race, class, gender, and sexuality. This course introduces students to a variety of science fiction texts – both classic and contemporary – and may include works by Mary Shelley, H.G. Wells, George Orwell, Ray Bradbury, Issac Asimov, Ursula Le Guin, Philip K. Dick, Octavia Butler, and Margaret Atwood. Prerequisite: ENG 102 or permission of division dean.

**ENG 235. Children's Literature. 3 Credits.**
Students in this course consider a variety of children's literature not only as literary and artistic expressions but also as historical and social artifacts. The course emphasizes illustrated books (picture storybooks) but also includes selections of chapter and young adult works. Students analyze and assess the literary merit and visual artistry of books from various genres, from diverse authors and illustrators. Those genres include fantasy, traditional literature (fairy tales), poetry, realistic and historical fiction, biography, and other non-fiction works. Students also explore issues related to education, censorship, multiculturalism, diversity, and the changing views of childhood. Course concepts are acquired primarily through reading and writing, with some discussion and lecture. Throughout the semester, students will present a variety of polished prose and written assessment of selected works in a variety of forms, including a scholarly research paper using library sources. Written work totaling at least 12-15 pages will be assigned. Additionally, other written analysis, reading responses, in-class essays, and rough drafts of formal essays may be required. Prerequisite: ENG 102 or permission of division dean.

**ENG 236. Modern Drama. 3 Credits.**
This course is a survey of international dramatic literature from 1879 to the present, encompassing such theatrical and literary movements as Realism, Expressionism, and Absurdism. Although the course includes some attention to production values (staging, performance, etc.), the emphasis is primarily on dramatic works as literary texts. Both primary and secondary texts will be assigned so that students become familiar with important works of criticism as well as the plays themselves. Readings include works by Ibsen, Chekhov, O'Neill, Williams, Beckett, Fugard, Hansberry, and Miller. Prerequisite: ENG 102 or permission of division dean. Fall.

**ENG 237. Special Topics: Queer American Drama. 3 Credits.**
Queer: once a derogatory word used against gay, lesbian, bisexual, and transgendered people has been reclaimed by social activists, writers, artists, educators, and scholars to describe all non-normative sexualities and identities, all that is considered by the dominant paradigms to be alien, strange, transgressive, odd in short, queer. This course will explore queer themes in American dramatic
literature from mid-twentieth century to the present. Emphasis will be on how images of gays, lesbians, and other sexual minorities have changed over the past half-century beginning with plays that precede the gay liberation movement, continuing with work from the early years of the AIDS pandemic, and ending in the present day. Authors studied may include Lillian Hellman, Tennessee Williams, Mort Crowley, Jonathan Larson, David Henry Hwang, and Tony Kushner. Prerequisite: ENG 102 or permission of division dean. This course may be used by LAT students as a substitute for Modern Drama.

ENG 239. Creative Writing I. 3 Credits.
This course is an introduction to writing fiction, poetry, and drama. Students will experiment with a variety of literary styles and genres, learn to give and receive feedback in a workshop setting, and have the opportunity to read published authors. Lectures and workshops will introduce students to literary devices and techniques, such as dialogue, plot, setting, characterization, point of view, alliteration, assonance, tone, diction, and metaphor. Prerequisite: ENG 101.

ENG 240. Creative Writing II. 3 Credits.
This course is an advanced writing workshop designed to give experienced writers the opportunity to hone their craft, while continuing to explore new styles and techniques. Workshops will present students with the opportunity to revise and refine their writing in preparation for publication in professional literary journals and magazines. Prerequisite: ENG 102, ENG 239.

ENG 241. Journalism I: Media Writing. 3 Credits.
This course helps students to become more concise writers by addressing the basic skills of journalism: observing, researching, reporting, interviewing, thinking, and writing with precision, clarity, and ethics. Assignments include basic reporting, local beat coverage, blogging, and multi-source stories. Students will be exposed to print and web writing, as well as some technology (including digital cameras and video). Student news stories will be submitted for the print and web editions of the MWCC student newspaper, The Mount Observer. Corequisite: ENG 101 or permission of division dean.

ENG 242. Journalism II: Advancing Newswriting. 3 Credits.
Continuation of ENG 241 Journalism I: News Reporting and Writing. This course is designed to further students' mastery of such journalistic techniques as idea development, news gathering, newsroom operation, editing, and layout. Emphasis will also be placed on writing for print and web editions of the student newspaper, mentoring students in the Journalism I course, editing articles, checking sources and facts, and putting together the monthly editions of both print and web. Students will be exposed to some technology (digital cameras, video). Prerequisite: ENG 241 or permission of division dean.

ENG 245. Film Appreciation. 3 Credits.
Through selected reading in film and literary theory and the screening of high quality films, the class examines and develops a greater awareness of basic film techniques, practices, and aesthetics. Emphasis is placed upon the relationship between film and literature (i.e., narrative structure, figurative language, problems of adaptation, criticism, genre) and film as a unique twentieth-century art form that incorporates a number of other media and arts. Prerequisite: ENG 102.

ENG 250. Shakespeare and Star Wars: A Study of Tragedy through Drama and Film. 3 Credits.
In this course, students will draw comparisons between the worlds of Shakespeare and Star Wars through an in-depth, critical analysis of Shakespeare’s tragic heroes and the journey of Anakin Skywalker as tragic hero. Students will read Julius Caesar, Othello, and Macbeth and also be required to read supplemental material including, but not limited to, script excerpts, biblical readings, and Elizabethan historical information. Finally, students will watch the second installment of the Star Wars trilogy, with a focus on The Revenge of the Sith. Questions of government and leadership, power and lust, jealousy and fatal attraction, friendship, religion, forbidden love, good vs. evil, stoicism, and temptation will be some of the topics discussed and expanded upon through various writing assignments, projects, and research. Prerequisite: ENG 102 or permission of division dean.

ENG 259. Literary Masterpieces I. 3 Credits.
This course is a study of representative literary masterpieces of Eastern and Western civilization for moral, philosophical, social, and psychological insights into the nature of modern man. Readings are taken from such sources as Aristotle, Greek drama, Plato, Milton, Chaucer, Machiavelli, Dante, and Shakespeare. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 260. Literary Masterpieces II. 3 Credits.
This course is a continuation of ENG 259 Literary Masterpieces I, with selections from Renaissance to contemporary culture. This course emphasizes western heroes and anti-heroes from the works of such authors as Voltaire, Tolstoy, Dostoevsky, Flaubert, Camus, Pope, and Mallarme. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Spring.
ENG 261. The Short Story. 3 Credits.
This course traces the development of the short story as a distinct literary genre from its origins in the early 19th century to the present. Emphasis is on close reading and analysis of texts by international writers. The course covers the major literary movements of the 19th and 20th centuries: Romanticism, Realism, Naturalism, Modernism, and Postmodernism. Readings include stories by Poe, de Maupassant, Chopin, Hemingway, Kafka, Joyce, O'Connor, and Carver. Prerequisite: ENG 102 or permission of division dean. Spring.

ENG 283. Journalism Practicum. 3 Credits.
This course is designed to provide students with opportunities for the enhancement of their course work in Journalism through external internships/shadowing at local media and more in-depth leadership as the Editor-in-Chief of the student newspaper. Prerequisites: ENG 242.

ENG 289. American Romanticism. 3 Credits.
This course is a study of significant American writing of the 19th century, a time of exploration and experimentation, which scholars have referred to as The American Renaissance. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments. Included are works by such authors as Emerson, Thoreau, Whitman, Fuller, Hawthorne, Dickinson, Douglass, Stowe & Melville. Prerequisite: ENG 102 or permission of instructor/division dean. Fall.

ENG 290. Advanced Writing and Research. 3 Credits.
In this course students demonstrate their ability to conduct academic writing and research by refining skills introduced in earlier composition courses and practiced elsewhere in their degree program. Students will engage with scholarship from a variety of disciplines, draft and revise essays in a number of academic genres (including summary and response, close analysis, and argument), conduct intensive library research for a substantial documented essay accompanied by an instructional librarian, and prepare a self-reflective narrative to accompany a completed portfolio of written work. Prerequisite: ENG 101, ENG 102; completion of at least 45 college-level credits, including completion of or co-enrollment in at least one 200-level ENG course.

PUBLIC RELATIONS
The Public Relations Certificate provides the practical and theoretical coursework to prepare both the public relations novice and the experienced public relations professional with knowledge of current public relations best practices. This credential is valuable for candidates interested in entry-level public relations specialist positions, as well as public relations managers and directors. This program is recommended for students interested in the communications, public relations, public affairs, or marketing industries. Entrepreneurs interested in learning how to promote their own businesses will also benefit from this program.

Upon completion of the program, students will have the skills and competencies to pursue work in public relations at various nonprofit and for-profit organizations, using their acquired skills to provide support in the marketing and public relations areas of these organizations.

PUBLIC RELATIONS CERTIFICATE (PRC)
The Public Relations Certificate is designed to provide the public relations practitioner, small business owner, and those interested in entering the field of public relations the knowledge, skills, and abilities critical for success. Most of the courses in this program can be completed online or during the day or evening.

Year 1
Fall

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>ENG 101</td>
<td>College Writing I</td>
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<tr>
<td>MRT 105</td>
<td>Introduction To Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MKT 142</td>
<td>Marketing</td>
<td>3</td>
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<tr>
<td>BUS 105</td>
<td>Business Ethics</td>
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Spring

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 241</td>
<td>Journalism I: Media Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 251</td>
<td>Introduction To Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>GID 117</td>
<td>Typography In Visual Communication (Indesign) (Formerly CGD 235)</td>
<td>3</td>
</tr>
<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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Total Credits: 24

Special Requirements
Technical standards must be met with or without accommodations.
Career Options/Earning Potential
For career options, please click here (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=public+relations&SearchType=occupation).

RADIOLOGIC TECHNOLOGIST ARTICULATION AGREEMENT
This program is offered through an articulation agreement with Quinsigamond Community College.

Students may complete general education courses at MWCC through enrollment in the Interdisciplinary Studies -- Allied Health Degree or the Allied Health Certificate and apply for acceptance into the Radiologic Technologist program at Quinsigamond Community College (QCC). All radiologic technologist courses must be taken at QCC, and students must meet the selective admission requirements of the QCC program.

The following courses may be taken at MWCC:

<table>
<thead>
<tr>
<th>Credits</th>
<th>ENG 101</th>
<th>College Writing I</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ENG 102</td>
<td>College Writing II</td>
</tr>
<tr>
<td>3</td>
<td>PSY 105</td>
<td>Introduction To Psychology</td>
</tr>
<tr>
<td>3</td>
<td>MAT 143</td>
<td>Statistics</td>
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<td>3</td>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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<tr>
<td>3</td>
<td>BIO 109</td>
<td>Biology I</td>
</tr>
<tr>
<td>4</td>
<td>BIO 203</td>
<td>Anatomy and Physiology I (formerly BIO 199)</td>
</tr>
<tr>
<td>4</td>
<td>BIO 204</td>
<td>Anatomy and Physiology II</td>
</tr>
</tbody>
</table>

An essential member of the health care team, the radiologic technologist provides diagnostic services to patients in hospitals, clinics, private imaging centers, and medical offices. Graduates of this program are eligible to apply for the national certification through examination by the American Registry of Radiologic Technologists (ARRT) and licensing through the Massachusetts Department of Public Health, Radiation Control program. Credentialing by the ARRT certifies the graduate as a Registered Technologist in Radiography — R.T. (R). Licensing by the Massachusetts DPH is required to be employed as a radiographer. QCC’s radiologic technologist program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRC/ERT), 20 N. Wacker Drive, Suite 900, Chicago, IL 60606, telephone 312-704-5300, email mail@jrcert.org. For more information about Quinsigamond Community College courses, prerequisites, and the college itself, visit QCC’s website (http://www.qcc.edu).

For specific information about the Rad Tech program, please click here (http://www.qcc.edu/radiologic-technology/).

Application deadline
The application deadline is December 15th. Students applying after the deadline will be considered on a space available basis. This selective admissions program requires additional application components. For more information, contact Advising at 978-630-9109.

Special requirements
In addition to the coursework at MWCC, students must satisfy additional QCC admissions requirements as follows:

- Must have a high school diploma or GED.
- Must take the college placement test to determine math and English levels if no college level courses were previously completed.
- TEAS V required. Please visit the Advising Center for score specifics.
- Math: minimum grade of C+ or better in MWCC MAT 143 Statistics.
- Biology: minimum grade of C+ in BIO 109 Biology I, BIO 203 Anatomy and Physiology I (formerly BIO 199), or BIO 204 Anatomy and Physiology II at MWCC (recommended).
- English: minimum grade of B in ENG 098 Fundamentals of Writing or place into ENG 101 College Writing I.
- Math and science courses must be taken within five years of application.
- Required grade must be earned within two attempts of taking and completing the course.
• Review of program website and career video.
  • Four-hour clinical observation.¹ Click here for more information. (http://www.qcc.edu/radiologic-technology/)

¹ Offered to academically qualified applicants only.

THEATRE ARTS TRACK

The Theatre Arts Track at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Liberal Arts and Sciences. Upon completion of the program, students are prepared to transfer to a four-year institution to complete a baccalaureate degree. The Theatre Arts Track offers a student the opportunity to explore the performing arts while completing a core curriculum used for transfer. Students will gain knowledge in a variety of disciplines including math, science, the humanities and the social sciences.

THEATRE ARTS TRACK (LAT)

A Degree in Liberal Arts and Sciences

This program places special emphasis on the performing arts and is an excellent foundation for transfer to theatre and music programs at four-year colleges and universities. Students will benefit from involvement in Theatre at the Mount’s extensive season of plays.

Year 1

Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 143 or 163</td>
<td>Statistics or Pre-Calculus (or higher)</td>
<td>3</td>
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<tr>
<td>THE 101</td>
<td>Fundamentals Of Acting</td>
<td>3</td>
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<tr>
<td>Behavioral Social Science Elective ¹</td>
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<td>3</td>
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<tr>
<td>THE 184</td>
<td>Technical Theatre Practicum I (Formerly THE284)</td>
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Spring

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ENG 102</td>
<td>College Writing II</td>
<td>3</td>
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<tr>
<td>Lab Science Elective ²</td>
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<td>4</td>
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<tr>
<td>MUS 111</td>
<td>Voice I</td>
<td>3</td>
</tr>
<tr>
<td>THE 185</td>
<td>Technical Theatre Practicum II (Formerly THE 285)</td>
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<tr>
<td>THE 103</td>
<td>Introduction To Theatre</td>
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Year 2

Fall

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<th>Course Title</th>
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<tr>
<td>Science Elective ³</td>
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<tr>
<td>SPC 113</td>
<td>Speech (formerly THE113)</td>
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<tr>
<td>DAN 120</td>
<td>Musical Theater Dance Styles (formerly MUS 120)</td>
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</tr>
<tr>
<td>ENG 236</td>
<td>Modern Drama (or Literature Elective -- see list below)</td>
<td>3</td>
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<tr>
<td>Music Elective ⁴</td>
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Spring

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ENG 290</td>
<td>Advanced Writing and Research</td>
<td>3</td>
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<tr>
<td>THE 106</td>
<td>Fundamentals Of Acting II</td>
<td>3</td>
</tr>
<tr>
<td>World Language or Culturally Diverse Humanities Elective (see list below)</td>
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<tr>
<td>General Elective</td>
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<tr>
<td>Culturally Diverse Non-behavioral Social Science Elective (see list below)</td>
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</tr>
</tbody>
</table>

Total Credits: 61

¹ Behavioral Social Science Electives: See Elective Courses by Abbreviation (p. 357).
² Lab Science Electives: See Elective Courses by Abbreviation (p. 357).
³ Science Electives: See Elective Courses by Abbreviation (p. 357).
⁴ Any MUS course.
### Literature Electives

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ENG 201</td>
<td>Honors English</td>
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<tr>
<td>ENG 203</td>
<td>Twentieth Century American Authors</td>
<td>3</td>
</tr>
<tr>
<td>ENG 205</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 213</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 214</td>
<td>American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 224</td>
<td>Mystery Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 233</td>
<td>Science Fiction</td>
<td>3</td>
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<td>ENG 235</td>
<td>Children's Literature</td>
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<tr>
<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
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<tr>
<td>ENG 252</td>
<td>Shakespeare and Star Wars: A Study of Tragedy through Drama and Film</td>
<td>3</td>
</tr>
<tr>
<td>ENG 259</td>
<td>Literary Masterpieces I</td>
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<td>ENG 260</td>
<td>Literary Masterpieces II</td>
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<tr>
<td>ENG 261</td>
<td>The Short Story</td>
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### World Language or Culturally Diverse Humanities Electives

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<thead>
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<td>ASL</td>
<td>Any American Sign Language course</td>
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<tr>
<td>ART 109</td>
<td>Art History I</td>
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<td>ART 110</td>
<td>Art History II</td>
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<tr>
<td>ART 251</td>
<td>Two-Dimensional Design</td>
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<tr>
<td>ART 252</td>
<td>Three-Dimensional Design</td>
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</tr>
<tr>
<td>ART 259</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 263</td>
<td>Drawing I</td>
<td>3</td>
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<tr>
<td>DAN 133</td>
<td>Hip Hop/Street Dance Foundation</td>
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<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
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<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
<td>3</td>
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<tr>
<td>ENG 236</td>
<td>Modern Drama</td>
<td>3</td>
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<tr>
<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
<td>3</td>
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<tr>
<td>ENG 261</td>
<td>The Short Story</td>
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<tr>
<td>FRE</td>
<td>Any French course</td>
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<td>HUM 240</td>
<td>Comparative Religion</td>
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<td>HUM 260</td>
<td>The Art Of Being Human I</td>
<td>3</td>
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<tr>
<td>MUS 106</td>
<td>History Of Jazz</td>
<td>3</td>
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<tr>
<td>MUS 160</td>
<td>History of Rock and Roll</td>
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Culturally Diverse Non-Behavioral Social Science Electives

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<th>Course Code</th>
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<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>GEO 129</td>
<td>World And Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIS 105</td>
<td>History Of World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106</td>
<td>History Of World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>American Ethnic History</td>
<td>3</td>
</tr>
</tbody>
</table>

See Theatre Arts program student learning outcomes and technical standards.

**Student Success Tips**

Eligible LAT students should consider entering MWCC’s Honors Program. Honors Program students benefit from a challenging, highly individualized academic experience; a tuition waiver during the final semester; active recruitment by four-year colleges and universities; and the use of the Honors Center. Also, because of the program’s Commonwealth Honors Program status, all MWCC Honors courses are transferable as honors courses within the Massachusetts public higher education system; and MWCC graduates are guaranteed acceptance into the Honors Programs of these colleges and universities. See the Honors Program (p. 58) for more information.

**Transfer Options**

For transfer options, please click here (p. 62). It is recommended that you also consult with your academic advisor.

**MASSTRAINER**

Students who plan to transfer to a Massachusetts state university or a University of Massachusetts campus may be eligible to transfer under the MassTransfer agreement, which provides transfer advantages to those who qualify.

Please click here for MassTransfer information (http://www.mass.edu/masstransfer/).

**Special Requirements**

Technical standards must be met with or without accommodations.

**PROGRAM STUDENT LEARNING OUTCOMES FOR LAT**

Upon graduation from this program, students shall have the ability to:

- Formulate clear and precise questions about complex problems and ideas relevant to a variety of disciplines—math, science, the humanities, and the social sciences—and gather, assess, and interpret information to arrive at well-reasoned conclusions and solutions.
- Demonstrate an understanding of complex written texts that demand an appreciation of subtext, irony, metaphor, and the subtlety and nuances of language.
- Successfully complete a substantial research paper that demonstrates the ability to formulate a research question, conduct research using the library’s databases, and synthesize information from a variety of sources into a cohesive and in-depth analysis of a topic.
- Demonstrate knowledge of historic, social, and cultural backgrounds necessary for understanding their own and other societies with an emphasis on important ideas and events that have shaped, and continue to shape, their world.
- Demonstrate scientific literacy, which can be defined as the matrix of knowledge needed to understand enough about the universe to deal with issues that come across the horizon of the average citizen, in the news or elsewhere.
- Demonstrate a broad exposure to, and an understanding of, the differences and similarities in the various academic disciplines within their Liberal Arts education.
Successfully transfer to a baccalaureate degree granting institution if desired, with the proper educational foundation for transition into a chosen field of study.

CAPSTONE COURSE FOR LAT

ENG 290 Advanced Writing and Research is the required capstone course for some Liberal Arts & Sciences majors and is to be taken after successfully completing ENG 101 College Writing I, ENG 102 College Writing II and at least 45 college-level credits.

TECHNICAL STANDARDS ¹ FOR LAT

¹ For general information about technical standards and accommodation, see Technical Standards. (p. 82)

Students entering these programs must be able to demonstrate the ability to:

• Comprehend textbook material at the 11th grade level.
• Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
• Gather, analyze, and draw conclusions from data.
• Work as a member of a team.

THE 101. Fundamentals Of Acting. 3 Credits.
Through the use of improvisation, theatre games, and scene study, students will be exposed to the working techniques that assist actors in creating a role and executing it in performance. The course will focus on the fundamental skills of the actor: concentration; believable action; basic stage directions and motivated movement; observation; emotional and sensory recall; and defining objectives. The course will culminate in student performance of scenes and monologues. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

THE 103. Introduction To Theatre. 3 Credits.
Students will become acquainted with various elements which comprise the world of theatre, including a brief view of its history, traditions, language, styles, and purposes as well as the function of the various disciplines within the craft and how they combine to create a theatrical production. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring. Alternate Years.

THE 106. Fundamentals Of Acting II. 3 Credits.
Building on the skills learned in THE 101 Fundamentals of Acting, this course focuses on script analysis and its application to scene study. Through scene work, students take a script from "page to stage" culminating in class projects presented for the public. Prerequisites: ENG 101, THE 101.

THE 112. Children’s Theatre/Theatre for Young Audiences. 3 Credits.
This course will explore the understanding and appreciation of the art of Children’s Theatre through the development of skills as a storyteller, performer, director, designer, and audience member/reviewer. Additionally, students will acquire skills for planning and adapting stories for children’s productions. Prerequisite: ENG 098, FYE 101, RDG 098, or placement. Spring.

THE 175. Introduction to Costume Design. 3 Credits.
This course explores the introductory skills and duties needed to perform in the role of costume designer in the performing arts. Students will work through the process of "Page to Stage" including but not limited to script analysis, research, production documentation, rendering and an introduction to textiles. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

THE 184. Technical Theatre Practicum I (Formerly THE284). 3 Credits.
This course is a hands-on introduction to basic stagecraft and technical production. Students are exposed to the terminology, tools, equipment, machinery, and materials involved in standard set construction, painting, rigging, lighting and sound. Students learn to work safely, collaboratively and creatively as part of a production team for Theatre at the Mount productions and events. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

THE 185. Technical Theatre Practicum II (Formerly THE 285). 3 Credits.
This course builds on the skills learned in THE 184 – Technical Theatre Practicum I. While working on Theatre at the Mount productions and events, students learn more advanced techniques and are expected to assume increased responsibility for production projects, working independently as directed by the instructor/Technical Director. Students are also exposed to basic theatre design practices and complete a design project which may focus on creating a Ground Plan, designing props, or building a Set Model. Prerequisites: THE 184.

VETERINARY TECHNOLOGY

The Veterinary Technology Program at Mount Wachusett Community College provides students with the opportunity to earn an Associate Degree in Veterinary Technology. Upon completion of the program, students are prepared for positions in a variety of
veterinary science settings. During the course of study, students will develop skills and competencies to prepare for the national licensure exam.

**VETERINARY TECHNOLOGY (VTE) (SELECTIVE)**

Veterinary technicians perform a wide range of duties on a day-to-day basis. Some of these tasks include performing medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals, preparing vaccines and serums for prevention of animal diseases, preparing tissue samples, collecting blood samples, and executing laboratory tests, such as urinalysis and blood counts. Veterinary technicians clean and sterilize instruments and materials and maintain equipment and machines. Veterinary technicians may find themselves assisting a veterinary surgeon during surgery, as well as performing medical tests under the supervision of a licensed veterinarian to help diagnose the illnesses and injuries of animals. MWCC’s Veterinary Technology program will help students build their hands-on and critical thinking skills to pursue successful careers as veterinary technicians.

MWCC’s Veterinary Technology Program was granted initial accreditation by the American Veterinary Medical Association (AVMA) Committee on Veterinary Education and Activities (CVTEA) effective September 13, 2019. Students who graduate from this program are eligible to take the Veterinary Technician National Exam (VTNE). Upon obtaining a successful passing score on the VTNE, an individual will be granted Veterinary Technician credentialing.

Sample job titles are as follows: Veterinary Laboratory Technician, Registered Veterinary Technician (RVT), Licensed Veterinary Technician (LVT), Certified Veterinary Technician (CVT), Veterinary Technician, Veterinary Nurse, and specialty technicians.

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101 College Writing I</td>
<td>3</td>
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<tr>
<td>MAT 162 Introduction to Functions Modeling (Formerly MAT 134)</td>
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<tr>
<td>CHE 107 General Chemistry I</td>
<td>4</td>
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<tr>
<td>VTE 101 Introduction to Veterinary Technology</td>
<td>3</td>
</tr>
<tr>
<td>VTE 102 Anatomy and Physiology of Domestic Animals I</td>
<td>4</td>
</tr>
<tr>
<td>VTE 115 Veterinary Parasitology</td>
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<tr>
<td>Social Sciences Electives</td>
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<tr>
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<tbody>
<tr>
<td>BIO 205 Microbiology</td>
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<tr>
<td>VTE 103 Anatomy and Physiology of Domestic Animals II</td>
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<tr>
<td>VTE 120 Animal Diseases</td>
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<tr>
<td>ENG 102 College Writing II</td>
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<tr>
<td>VTE 200 Domestic Animal Nutrition and Health</td>
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<tr>
<td>VTE 220 Veterinary Clinical Laboratory Procedures</td>
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<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>Fall</td>
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<tr>
<td>VTE 210 Veterinary Clinical Nursing Skills</td>
</tr>
<tr>
<td>VTE 205 Veterinary Pharmacology</td>
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<tr>
<td>VTE 215 Veterinary Technician Internship I</td>
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<tr>
<td>VTE 110 Farm Animal Medicine</td>
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<tr>
<td>VTE 218 Domestic Animal Behavior</td>
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<th>Spring</th>
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<tbody>
<tr>
<td>VTE 216 Veterinary Technician Internship II</td>
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<tr>
<td>VTE 222 Laboratory Animal Medicine and Management</td>
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<tr>
<td>VTE 225 Surgical Nursing and Dentistry</td>
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<tr>
<td>VTE 208 Veterinary Radiology</td>
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<tr>
<td>Humanities Elective</td>
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<td>Humanities Elective</td>
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</table>

**Total Credits: 76**

1. All VTE courses must be completed with a C+ or higher.
2. Social Sciences Electives: Elective Courses by Abbreviation (p. 357).
3. Humanities Electives: Elective Courses by Abbreviation (p. 357).
4. VTE courses greater than five years in age will not be applicable to the program of study.
Campus
This program is offered on the Gardner campus only. Students will be required to complete internships during their third and fourth semesters. Attendance at internship sites is mandatory and will require students to travel.

Application Information
For specific details refer to the selective program application available through MWCC Admissions (http://mwcc.edu/admissions/).

Student Success Tips
Because of an extensive classroom and clinical commitment, students are encouraged to complete some of the general education requirements prior to beginning veterinary technology courses.

Technology is integrated into all aspects of attending college in the 21st century. Students are expected to have proficient computer skills and the ability to access the internet via desktop/laptop computer or tablet. Internet access may be from home or through a public site, such as a local public library, public college or at any MWCC campus.

Special Requirements
Please see Selective Program Requirements for Veterinary Technology (p. 36).

Career Options/Earning Potential
For career options, please click here. (https://mwcc.emsicareercoach.com/#action=loadOccupationSearchResults&Search=veterinary+technician&SearchType=occupation)

PROGRAM STUDENT LEARNING OUTCOMES FOR VTE:
Upon graduation from this program, students shall have the ability to:

• Successfully carry out and complete each individual task as described within the Essential Skills List developed and owned by the AVMA Committee on Veterinary Technician Education and Activities (CVTEA).
• Accurately compute mathematical calculations as necessary during the treatment and care of patients.
• Obtain the knowledge needed to articulate a scientific conversation in regard to animal behavior.
• Demonstrate a thorough understanding of the roles of the veterinary technician in the practice of their choice.
• Recognize the common vaccines used in domestic animals, describe the vaccine reactions seen in domesticated species, and analyze the types of drugs and their mechanisms of action.
• Memorize the local, state, and federal controlled substance laws.
• Demonstrate understanding of patient care before, during and after a surgical procedure.
• Effectively and accurately communicate with veterinary professionals and clients.
• Within the veterinary setting, evaluate the concept of medical records and record keeping, explain inventory and bookkeeping, and assess veterinary sanitation protocols.
• Correctly operate laboratory analyzers and practice safe and ethical laboratory procedures.
• Describe and demonstrate the procedures used to diagnose parasitic infections in domestic animals.
Technical Standards for VTE:

For general information about technical standards and accommodation, see Technical Standards (p. 82).

Students entering this program must be able to demonstrate the ability to:

- Comprehend textbook material at a college level.
- Communicate and assimilate information either in spoken, printed, signed, or computer voice format.
- Gather, analyze, and draw conclusions from data.
- Stand for a minimum of two hours.
- Walk for a minimum of six hours, not necessarily consecutively.
- Stoop, bend, and twist for a minimum of 30 minutes at a time and be able to repeat this activity at frequent intervals.
- Differentiate colors as assessed by standard color blindness evaluation.
- Differentiate by touch hotness/coldness, wetness/dryness, and hardness/softness.
- Use the small muscle dexterity necessary to do such tasks as gloving, gowning, and operating controls on laboratory instrumentation.
- Respond to spoken words, monitor signals, and instrument alarms.
- Identify behaviors that would endanger a person or animal’s life or safety and intervene quickly in a crisis situation with an appropriate solution.
- Remain calm, rational, decisive, and in control at all times, especially during emergency situations.
- Lift a 50-pound animal or assist with a larger animal and transfer the animal from one location to another.
- Exhibit social skills appropriate to professional interactions.
- Maintain cleanliness and personal grooming consistent with close personal contact.
- Function without causing harm to self or animals or others if under the influence of prescription or over-the-counter medications.

VTE 101. Introduction to Veterinary Technology. 3 Credits.
This course will introduce new Veterinary Technology students to the expectations of learning throughout the program, medical terminology, medical calculations, breed identification of companion animals, common regulatory agencies throughout the field, and credentialing of veterinary professionals. Students will explore the inner workings of veterinary hospitals, discover the medical ethics laws for veterinary health care professionals, partake in appropriate communication between veterinary professionals and clients, interpret medical records, schedule appointments and discuss common laws relating to medical malpractice within the veterinary field. Prerequisites: ENG 098, MAT 162 (or corequisite), RDG 098, FYE 101 or placement; high school biology within the past three years with a grade of “B” or higher. Fall.

VTE 102. Anatomy and Physiology of Domestic Animals I. 4 Credits.
Participants learn the inner workings of the domesticated animal’s body and how organs develop, their functions, and the reason they are present in the body. Students will use preserved animals, teaching mannequins and anatomical models of a variety of species to study both gross and microscopic anatomy of the integumentary, skeletal and muscular systems. Prerequisites: ENG 101 (or corequisite); MAT 162 (or corequisite); VTE 101 (or corequisite). Fall.

VTE 103. Anatomy and Physiology of Domestic Animals II. 4 Credits.
VTE 103 is a continuation of VTE 102. This course will more comprehensively explore the inner workings of the body. Students will learn about the brain, as well as the nervous, urinary, respiratory, endocrine, circulatory, reproductive and urinary systems. Prerequisites: VTE 102 with a C+ or higher. Spring.

VTE 110. Farm Animal Medicine. 4 Credits.
This course will discuss breed identification, restraint techniques, husbandry, behavior, anatomy, nutrition, common diseases and medical practices in large animal species. Laboratories will meet off-site at large animal facilities. Prerequisites: VTE 101, VTE 103 with a C+ or higher. Fall.

VTE 115. Veterinary Parasitology. 4 Credits.
During this course, students will learn a variety of common internal and external parasites that are encountered in veterinary medicine. Students will be able to identify each parasite, both microscopically and grossly; the common symptoms associated with each parasitic infection; the life cycles; methods of testing; treatment and prevention strategies; as well as public health significance of each parasite covered. Prerequisites: VTE 101 (or corequisite). Fall.
VTE 120. Animal Diseases. 2 Credits.
Students will explore numerous congenital, infectious, traumatic and neoplastic disease processes that can affect companion animal species. Each student will be familiar with identifying each disease, its symptoms and presenting complaints, and the diagnostic and therapeutic approaches veterinary professionals must take. Prerequisites: BIO 205 (or corequisite), CHE 107, and VTE 102 with a C+ or higher. Spring.

VTE 200. Domestic Animal Nutrition and Health. 2 Credits.
The course will cover the canine and feline digestive system, the nutrition needed by these species, the different types of pet foods and their role in nutrition, and the nutritional requirements for the different life-stages of cats and dogs. Prerequisites: VTE 101 with a C+ or higher. Spring.

VTE 205. Veterinary Pharmacology. 2 Credits.
Students will explore the principles of pharmacology including general drug use; administration; types of drugs; indications and contraindications of drug use; and mechanism of action; as well as drug labeling, dispensing and packaging. Each student will also understand the legalities and ethics of using controlled substances. Medical calculations, prescription notation and proper record keeping will also be reviewed. Prerequisites: VTE 101 with a C+ or higher and CHE 107. Fall.

VTE 208. Veterinary Radiology. 2 Credits.
This course will cover general veterinary radiology safety, x-ray generation, film handling and processing, position and restraint. Ultrasonography, CT and MRI will also be covered. Prerequisites: VTE 103 and VTE 110 with a C+ or higher. Spring.

VTE 210. Veterinary Clinical Nursing Skills. 4 Credits.
The purpose of this course is to provide the student with the knowledge and the hands-on skills essential for the day-to-day veterinary technician role. The course will cover topics such as performing thorough physical exams; triaging patients; restraint and handling; administering medications parenterally, intramuscularly, subcutaneously and intravenously; venipuncture; intravenous catheter placement; urinary catheter placement; fluid therapy; emergency procedures; bandaging; and use and translation of normal and abnormal electrocardiograms. Prerequisites: VTE 103, VTE 120 with a C+ or higher. Fall.

VTE 215. Veterinary Technician Internship I. 3 Credits.
Students are required to participate in an off-site externship for 9 hours weekly (126 total hours) at a facility of their choosing. Each facility must be pre-approved by the Veterinary Technology Program Director prior to the student starting his/her externship. Students may select an externship in any type of facility they please (i.e. large animal, emergency medicine, specialty medicine, marine life, research and exotics), but must be under direct supervision of a certified veterinary technician (CVT), unless otherwise decided by the Program Director. Each rotation will require a journal submitted at the end of the rotation explaining day-to-day activities (in detail) in which the student participated while at the externship. Prior to completing the course, students are required to present an interesting case study in which they were involved during their externships. Prerequisites: VTE 120, VTE 210 with a C+ or higher. Fall.

VTE 216. Veterinary Technician Internship II. 3 Credits.
Students are required to participate in an off-site externship for 9 hours weekly (126 total hours) at a facility of their choosing. Each facility must be pre-approved by the Veterinary Technology Program Director prior to the student starting his/her externship. Students may select an externship in any type of facility they please (i.e. large animal, emergency medicine, specialty medicine, marine life, research and exotics), but must be under direct supervision of a certified veterinary technician (CVT), unless otherwise decided by the Program Director. Each rotation will require a journal submitted at the end of the rotation explaining day-to-day activities (in detail) in which the student participated while at the externship. Prior to completing the course, students are required to present an interesting case study in which they were involved during their externship. Offered during Spring and Summer semesters. Prerequisites: VTE 215 with a C+ or higher.

VTE 218. Domestic Animal Behavior. 2 Credits.
This course will explore the different behaviors displayed by canines and felines. Body language, communication, social structure and life stage behavior will be discussed in detail. Strategies for preventing and correcting unwanted behaviors will also be discussed. Prerequisites: VTE 220 with a C+ or higher. Fall.

VTE 220. Veterinary Clinical Laboratory Procedures. 4 Credits.
The purpose of this course is to provide students with the knowledge of how to properly collect and handle laboratory specimens, proper storage of each specimen, and general laboratory procedures. Each student will learn the skills used by most veterinary practices in the fields of blood chemistries, hematology, cytology and urine. Prerequisites: VTE 101 with a C+ or higher and VTE 120 (or corequisite). Spring.

VTE 222. Laboratory Animal Medicine and Management. 2 Credits.
This course will provide the student with the information needed to pursue a career as a veterinary technician in a research facility. The course will cover the local, federal and state mandated laws and regulations regarding the care and use of laboratory animals. Students will explore proper husbandry, restraint and technical skills such as drawing blood and injecting medications into laboratory
species which include mice, rats, hamsters and rabbits. Prerequisites: VTE 103, VTE 200, VTE 210, and VTE 220 with a C+ or higher. Spring.

**VTE 225. Surgical Nursing and Dentistry. 4 Credits.**
Students will explore the knowledge and experience that are essential in performing safe surgical procedures in veterinary practice. Students will know how to anesthetize small animals; properly and effectively monitor patients under anesthesia; and use aseptic techniques both for prepping patients for procedures and for veterinary personnel. Students will be able to identify and explain proper use of surgical equipment and surgical instruments. Students are required to understand the procedures and safety precautions for patients and veterinary professionals before, during, and after surgical procedures. Students will also develop the skills for performing effective dentistry procedures, including dental x-rays, tooth extractions, and dental cleanings, as well as the knowledge to identify dental diseases. Prerequisites: VTE 103, VTE 205, and VTE 210 with a C+ or higher. Spring.

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ACCOUNTING (ACC)

ACC 101. Principles Of Accounting I. 3 Credits.
This course covers the basic accounting principles necessary for an intelligent understanding of the books and records used in business: debits and credits; opening and closing books; classification and analysis of accounts; controlling accounts; trial balance; working papers; and the preparation of financial statements. Prerequisites: FYE 101, MAT 092, RDG 098, ENG 098 or placement.

ACC 102. Principles Of Accounting II. 3 Credits.
This course is a continuation of ACC 101 Principles of Accounting I and covers partnerships, the nature and formation of corporations, capital stock, corporation earnings, dividends, investments, and long-term obligations. Topics also considered are manufacturing operations related to control accounting procedures and statement of changes in financial position. Prerequisite: ACC 101.
ACC 224. Taxation. 3 Credits.
This course includes income tax laws and their application to individuals, partnerships, fiduciaries, and corporations. Practical problems covering concrete situations illustrate the meaning of the laws. Primary emphasis is placed on individual tax preparation. Prerequisite: ACC 101.

ACC 226. Managerial Accounting I. 3 Credits.
This course is a continuation of ACC 101 Principles of Accounting I and ACC 102 Principles of Accounting II with major emphasis on the development and application of accounting data for planning and control. Prerequisite: ACC 102 or permission of the division dean. Fall.

ACC 227. Computerized Accounting. 3 Credits.
The accounting cycle for a business, payroll, and bank statement reconciliation is entirely computerized into one coordinated, interactive system. Other problems may be introduced as appropriate. Prerequisites: ACC 101; CIS 121 or CIS 127.

AMERICAN SIGN LANGUAGE (ASL)

ASL 101. Basic American Sign Language I. 3 Credits.
The purpose of this course is to introduce students to basic American Sign Language vocabulary and sentence structures. Simple conversations and use of body language and role-playing will prepare students for the more complex facial grammar used in American Sign Language. Through outside readings, students will be introduced to topics of importance to the Deaf community. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ASL 102. Basic American Sign Language II. 3 Credits.
This course continues to build upon the vocabulary and grammatical structures introduced in ASL 101 Basic American Sign Language I. There will be more emphasis on facial/non-manual grammar. Sentence length will increase and topic range for conversational usage will broaden. Through outside readings, students will continue to be exposed to related topics. Prerequisite: ASL 101.

ASL 103. Intermediate American Sign Language I. 3 Credits.
This course continues to build upon ASL 101 Basic American Sign Language I and ASL 102 Basic American Sign Language II. Conversational usage and more complicated inflectional processes will be taught. Simple storytelling and cultural behaviors among signers will be emphasized. In addition, expressive and receptive finger spelling will be targeted in skills development sessions. Prerequisite: ASL 102.

ANTHROPOLOGY (ANT)

ANT 111. Cultural Anthropology. 3 Credits.
This course will survey human cultural evolution from a hunting and gathering society to the modern industrial state. Social systems, political organization, economic structure, religious beliefs, and artistic achievements of non-western culture will be studied and compared to our own culture. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ART (ART)

ART 101. Introduction To Painting. 3 Credits.
This studio course familiarizes the non-art major with the art of painting in oils and/or acrylics. Students learn basic fundamentals of color mixing and applying paint while painting from still life set-ups, portrait models and other typical subject matter. Discussions and reproductions introduce students to relevant painters and their work and a general appreciation of the craft of painting. Some art materials must be purchased for this course. Not open to art majors. Prerequisite: None.

ART 103. Introduction To Sculpture. 3 Credits.
This studio course introduces principles of sculpture and three-dimensional design to the student with little or no previous art experience. The emphasis will be on learning to skillfully manipulate different materials and to develop an understanding of art concepts as they apply to the practice, viewing, and discussion of art. The student will gain an appreciation for three-dimensional work as he/she directly experiences the process inherent in creating art. A range of media will be used. Not open to art majors. Prerequisite: None.

ART 105. Introduction To Drawing. 3 Credits.
This course is designed as an introductory-level course for those with little or no previous experience in drawing. Its aim is to expose the student to a range of media and working approaches to the various problems of drawing. The task of learning to see will be met as a combination of close observation and spontaneous response to the media of drawing. In class, as well as out of class, drawings will be initiated by the students themselves. Subjects will include landscape, still life, interiors, portrait, and the clothed human figure. Prerequisite: None.
ART 109. Art History I. 3 Credits.
This course is a chronological survey of the visual arts of the Western World from prehistoric times to the Renaissance. The course presents significant sculpture, architecture, and paintings of this period through slides, films, textual reproductions, and actual museum pieces. Lectures include critical, visual, and technical analysis of these works, biographical sketches of contributing artists, and relevant cultural and historical details that influenced the art of these centuries. Works of art from non-Western cultures will also be studied. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Spring.

ART 110. Art History II. 3 Credits.
This course is a chronological survey of the visual arts of the Western World from C.E. 1300 to 1950. The course presents significant sculpture, paintings, and architecture of these years through slides and textual reproductions. Lectures include critical, visual, and technical analysis of these works, biographical sketches of the contributing artists, and the relevant cultural and historical events and personages that influenced and were influenced by the art of these centuries. Chapters on Islamic, Asian, African, North & South American Art focus on issues of cultural diversity. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Fall.

ART 212. Portfolio and Digital Tools. 3 Credits.
This capstone course provides the student with practical skills and knowledge essential in preparing for future education or a career in the visual arts, articulating their identity and place in the arts. Students will critique and assess accomplishments to develop a comprehensive portfolio of work, after individual review with each art faculty. Program competencies and learning outcomes evaluated. Students will focus on developing individual portfolios for their pursuits, researching and preparing application materials for bachelor's degree programs, and opportunities in the arts, creating an artist's statement and resume, and advancing written and oral communications skills. Students are introduced to digital tools necessary for success. Documenting work, use of a digital camera, an introduction to Photoshop, and creating promotional materials will be presented. Students will develop a final series of work to strengthen or enhance their final portfolio and create an artist's presentation in PowerPoint of final work and aspirations. Required course for ART and LART major. Prerequisites: ART 263, ART 264, and ART 269. Spring.

ART 241. Watercolor Painting. 3 Credits.
This course explores the basic techniques of working in the medium of watercolors. Exercises using transparencies and opaque techniques will be assigned. Slides of historical works by masters of the medium will be screened and discussed. Prerequisites: ART 105 or ART 263.

ART 251. Two-Dimensional Design. 3 Credits.
Two-Dimensional Design presents the principles of expressive design on flat surfaces through directed activities in painting, drawing, collage, and digital imaging. Students practice the use of line, shape, color, value, and other design fundamentals. Lecture, critique, and discussion further engage students in the exploration of artwork from several cultures in discovering what constitutes good design. Students will need to buy most of the course materials. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement); ART 263 is recommended.

ART 252. Three-Dimensional Design. 3 Credits.
This course provides students with the processes to create three-dimensional shapes. The first part of the course is a study of geometric and organic forms. By using materials such as cardboard, styrofoam, plaster, and clay, forms are constructed that explore the relationship of parts to the whole in their spatial context as the basis of good design. Additional problems stress the tectonic aspects of design and how they are used to create sculptural forms. An assigned portrait study in clay, along with procedures for plaster molding and casting, will be completed by the end of the course. Artists and approaches will be introduced from western and non-western perspectives. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement); ART 263 is recommended.

ART 253. Painting I. 3 Credits.
Painting I offers basic instruction in oil and/or acrylic painting and is intended for art majors and other students with an art background. Class and home assignments allow the student to practice mixing colors and manipulating paint. Accurate translation of observed color, form, and space is emphasized. Personal expression is encouraged. Students also learn about brush selection, surface preparation, pigment composition, and the use of various mediums. Building and stretching a canvas and preparing a painting for exhibition will be presented. Lectures, discussions and critiques familiarize students with the history of painting from various cultures and what constitutes good painting. Students are responsible for supplying most of the materials needed for the course. Prerequisites: ART 263 or permission of division dean. Spring.

ART 254. Painting II. 3 Credits.
Painting II is a continuation of ART 253 Painting I. Students paint from the human figure, interior spaces, and the surrounding landscape in an effort to 1. better understand the relationship of light, color, form, and space; 2. improve their ability to translate a three-dimensional experience onto a flat surface; and 3. expand their transfer portfolios. Outside of class, this course encourages the development of more personal motifs in order to further explore painting as an expressive medium. Discussions and lectures acquaint the students with the paintings and artists of varying cultures and times. Students must participate in an exhibit of work at semester's
end. Students are responsible for supplying most of the materials needed for this course. Prerequisite: ART 253 or permission of division dean. Fall.

**ART 257. Painting III. 3 Credits.**

Painting III is for advanced students interested in pursuing their personal interests in oil painting. Emphasis is on the individual work of the student, thematic development, and aesthetic considerations unique to the painting process. Painting III is recommended for the student who is motivated, directed, and able to work independently. A small exhibition of work in the school Gallery is required. Prerequisites: ART 254 and permission of the division dean.

**ART 259. Ceramics I. 3 Credits.**

Students create functional and sculptural work in clay as they develop skills in hand-building methods (pinch, coil, drape, and slab) and end with an introduction to the potter’s wheel. Work from Africa, indigenous Americans, and historical and contemporary ceramists, along with ancient firing practices, will be presented. The course may include different clay bodies and glazes, as well as firing the work in outdoor kilns and the electric or gas kilns. Individual expression will be encouraged, as the student gains an appreciation for the history of ceramics and for clay as a unique medium. Outside reading assignments and keeping a sketchbook throughout the semester will be required. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement).

**ART 260. Ceramics II. 3 Credits.**

This course focuses on developing skills on the potter’s wheel to create functional forms (cylinders, bowls, jars, mugs, etc.) and hand-building sculptural clay pieces of a large scale. Ceramic work from the Far East, the Mediterranean, Europe and work by historical and contemporary ceramists will be presented. Individual expression will be encouraged as students visualize and build pieces that challenge their skills. Different clay bodies, glazes, glaze applications, and decorative techniques will be explored. The course may include firing in outdoor trash barrel kilns, a raku firing, or using the electric and gas kilns. Outside reading assignments and keeping a sketchbook throughout the semester will be required. Prerequisite: ART 259 or permission of division dean. Spring.

**ART 263. Drawing I. 3 Credits.**

Students will explore a wide range of media and working processes common to the art of drawing as well as the historical context on which contemporary views of drawing are based. Assignments will center on the ability to translate objects in actual three-dimensional space onto a flat two-dimensional surface as opposed to drawing from photographs. Learning to see will be a primary focus of class work. All aspects of style and technique will be discussed or demonstrated. Drawing from the human figure will be introduced. May include clothed and nude models. Artists and approaches will be introduced from western and non-western perspectives. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement).

**ART 264. Drawing II. 3 Credits.**

This course is aimed at developing the artistic areas that were begun in ART 263 Drawing I so that students can achieve an overall confidence level with a range of different media and approaches. Areas of concentration will focus on composition, perspective, and illusionary, as well as two-dimensional aspects of space. Artists and approaches will be introduced from western and non-western perspectives. A significant amount of time will be spent developing drawings from the human figure from nude and clothed models. Portfolio development in this area will be encouraged with critiques aimed at enhancement of individual drawing strengths. Assigned problems beyond class time will focus on individually initiated work aimed at a clearer definition of the student's own goals in drawing. Prerequisite: ART 263 or permission of division dean. Spring.

**ART 269. Drawing III. 3 Credits.**

This course is designed for the art student to develop advanced level drawings and to create work for a portfolio. The student should be capable of individually directed work in drawing and have completed all other drawing courses. Emphasis is on thematic development, the individual work of the student, and aesthetic considerations unique to the drawing process. Clothed and nude models may be used. Cutting a mat and preparing a work for exhibition will be presented. Prerequisite: ART 264. Fall.

**ART 271. Sculpture I. 3 Credits.**

The aim of this course is to teach sculptural working principles that hold true of good sculpture, whether from earlier traditions or more modern ones. The course is structured with assigned problems that will engage the student in aspects of the traditional figure study in clay using nude models, and assignments aimed at exploring the (object) aspect of form and the varying spatial aspects that form its context. Subtractive techniques will be introduced. A wide variety of sculptural examples from western and non-western cultures in prehistory or modern era will act as a source of sculptural precedent for individual initiatives in problem solving. The tectonic or building aspects of construction involving weight, mass, and durability will be put on par with the intellectual aspect of the creative process. Success in the course will depend on both. Prerequisites: ART 252 or permission of the division dean. Fall.

**ART 272. Sculpture II. 3 Credits.**

This course is structured so that students who have begun to develop skills in the sculptural building processes can practice and further refine these skills at the higher level with increased creative problem solving. More attention will be paid to work from the model. Problems will be given to expand the student's familiarity with a broader range of material and ideas. An option to learn subtractive
techniques in wood and stone will be made available. Students will learn lost wax bronze casting procedures. Prerequisite: ART 271 or permission of the division dean. Spring.

**ART 273. Sculpture III. 3 Credits.**
This course is for the advanced student who is in pursuit of creating work for a portfolio, after completing all other course offerings in sculpture. Emphasis is on the individual work of the student, thematic development, and aesthetic considerations unique to the sculpture process. Recommended for the student who is motivated, directed, and able to work independently. Prerequisites: ART 272, and permission of the division dean.

**ART 284. Ceramics III. 3 Credits.**
This course is for the advanced student who is in pursuit of creating work for a portfolio, after completing all other course offerings in ceramics. The student is expected to create a thematic body of ceramic work and further develop their technical skills and conceptual abilities. Further exploration of clay bodies, glazes, kiln firings, and aesthetic considerations unique to the ceramic process will be presented. The student should have some previous knowledge of working with clay, understand methods of hand building, and have basic skills using the potter's wheel. The student is expected to be self-motivated, able to work independently, and to have specific goals. In addition to creating the body of work in individual proposal that is developed with the instructor, the student will complete an assignment on glaze chemistry, and give an oral presentation on his/her research of a significant potter, ceramist, or sculptor. Prerequisites: ART 260 and permission of the division dean.

**ART 285. Ceramics IV. 3 Credits.**
This course is a continuation of ART 284 Ceramics III and is designed for the art student interested in further advancing skills for working with clay and creating advanced level work for a professional or transfer portfolio. The student should be capable of individually directed work and have completed all other ceramic courses. Further exploration of clay bodies, glazes, glaze chemistry, kiln firings, and aesthetic considerations unique to the ceramic process will be presented. The course will include research, oral presentations, a glaze chemistry project relevant to the student's own work and critiques. Emphasis will be on the individual work of the student. Prerequisites: ART 284 and permission of the division dean.

**ART 286. Printmaking I. 3 Credits.**
An introduction to printmaking that may include monotypes, relief, and intaglio. Thematic development and individual expression will be encouraged as the student develops a portfolio of monotypes, drypoints, etchings, and linocuts. The student will learn the process of plate preparation, applying a ground to the plate; the proper use of the press and care of prints will be presented. Safer approaches to printmaking will be covered. Prerequisite: ART 105, ART 113, or ART 263 or permission of division dean.

**ART 287. Printmaking II. 3 Credits.**
The student will focus on intaglio printmaking and the use of color or multiple blocks in relief printmaking. Different grounds, aquatint, etching a plate, registration, and the printing of a consistent edition of prints will be presented. Individual expression and aesthetic considerations will be encouraged in the development and printing of the student's original image. Traditional and contemporary innovations in printmaking will be emphasized. Prerequisite: ART 286 or permission of division dean.

**AUTOMOTIVE (AUT)**

**AUT 110. Introduction to Automotive Technology. 3 Credits.**
Introduction to Automotive Technology examines the role and opportunities of the automotive service professional in today's automotive industry. Shop environment, tools/equipment, and personal safety are emphasized. Students will experience typical job-entry service skills and vehicle maintenance inspections. The necessary resources providing service information are examined. An introduction of vehicle operation and support systems will be presented. This course provides the background information required to continue in the automotive technology program.

**AUT 120. Performance And Diagnosis I. 5.5 Credits.**
Students will learn to use diagnostic test equipment for quick and efficient problem solving. Engine vacuum testing, compression testing, cylinder leak-down testing, and cylinder power balance testing will be required. Students will learn to use an infrared analyzer to understand the effects on pollution that an improperly running engine creates. Principles of doing a tune-up will be explored. Ignition systems including point type, electronic, and distributorless systems will be covered. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

**AUT 121. Performance And Diagnosis II. 5 Credits.**
This course is a continuation of AUT 120 Performance and Diagnosis I. Students will learn about the various fuels used today and the problems associated with them. Fuel delivery systems starting with the carburetor through today's fuel injection systems will be studied. Emission control systems such as PCV, EGR, EFE, AIR, and the catalytic converter will be examined along with the pollutants they reduce. Computerized engine controls along with their sensors will be tested and examined for proper performance. On
Board Diagnostics II will be discussed and explored. Students will complete sample questions in preparation for the ASE Certification exams. Prerequisite: AUT 120 or permission of division dean. Spring.

**AUT 122. Brakes. 5 Credits.**
This course is designed to teach students various brake systems and repair. Students will study master cylinders, proportioning valves, metering, and disc brake repair and diagnosis. Students will learn about power assist units and wheel bearing diagnosis and repair. Anti-lock brake systems will be studied and tested as well as brake fluids and brake bleeding. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

**AUT 123. Electrical Systems I. 4.5 Credits.**
This course covers the fundamentals of electricity and magnetism, along with exploring the relationship of volts, ohms, and amps. The course will apply these two series, parallel, and series-parallel circuits. Semiconductor components such as diodes and transistors will be explored. Students will learn to use digital volt-ohm meters and oscilloscopes. Battery design and testing will be explored along with starting and charging systems. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite). Fall.

**AUT 124. Electrical Systems II. 4.5 Credits.**
This course is a continuation of AUT 123 Electrical Systems I. Using wiring diagrams, students will examine headlights, taillights, and parking lights for proper operation. Stoplights, turn signals, hazard lights, and back-up light circuits will be examined and repaired. The operation of the power door locks and power windows will be examined. Electrical circuits associated with dashboards, gauges, printed circuits, and digital instrument clusters will be studied along with various other electrical circuits. Prerequisite: AUT 123 or permission of division dean. Spring.

**AUT 125. Engine Repair. 6 Credits.**
The lecture and lab periods for this course cover designs, nomenclature, and theory of operation of internal combustion engines, including valves and operating mechanism, piston and connecting rod assembly, crankshaft and bearing, lubrication system, cooling system, crankcase ventilation, engines, fuels, and lubricants. This course also includes an introduction to the study of the Wankel, diesel, and other propulsion systems. Prerequisites: ENG 098, FYE 101, MAT 092 (or corequisite), RDG 098, or placement; AUT 110 (or corequisite).

**AUT 127. Suspension And Steering. 5 Credits.**
This course is designed to teach students the various suspension components and systems. Students will learn how to inspect and replace steering components. Rack and pinion steering gears, vehicle riding height, body sway, front and rear end alignment, and tire problems will be studied. Prerequisites: AUT 120 or permission of division dean. Spring.

**AUT 130. Manual Transmissions. 4 Credits.**
This course covers the components and operation of manual transmissions, transaxles, clutches, differentials, drive shafts, transfer cases and all-wheel / four-wheel drive systems. Operating system principles pertaining to hydrodynamics, fluid couplings, clutch assemblies, and shift controls will be discussed. Diagnostic techniques, component, and system testing as well as maintenance procedures are accomplished in the lab sessions. Ancillary drive train components such as drive shafts, CV joints, differentials, and transfer cases are explored. Prerequisites: AUT 125. Spring.

**AUT 131. Automatic Transmissions. 4 Credits.**
This course is the study of the construction and operation of automatic transmissions and transaxles. Emphasis will be on the diagnostic techniques of electrical, hydraulic and mechanical systems. The disassembly and reassembly of selected transmissions will strengthen student understanding. Students will inspect, measure and test the transmission as required for successful performance. Prerequisite: AUT 125.

**AUT 204. Heating And Air Conditioning. 3 Credits.**
This course is designed to teach students about the theory and operation of heating and air conditioning systems. Students will learn about heat transfer, temperature pressure relationships, and control systems. The course will cover the theory and operation of air conditioning systems, air management delivery systems, and electronic climate control systems. The course will prepare students to take the ASE test A-7 Heating and Air Conditioning Systems. Prerequisites: FYE 101, MAT 092 (or corequisite), RDG 098 or placement.

**AUT 205. Automotive Cooperative. 3 Credits.**
This is the Automotive Degree Program’s required internship, offered during the summer semester only. This internship is designed to help you relate your college courses to your career goals. This provides students with hands-on entry-level experience at a new car dealership or an independent repair facility or repair shop. Students are required to work at a facility approved by the Automotive Program Department Chair. Periodic supervisor evaluations based on performance and other criteria related to successful employment will be completed and reviewed by the co-op coordinator and site supervisor and will be the basis for the final grade. Tools identified on the student tool list are required at the co-op site. A minimum grade of C is required to continue toward degree completion. This
three-credit cooperative course requires a minimum of 120 hours automotive work at an approved facility. Prerequisite: Successful completion of 25 AUT credits. Summer.

**BIOLOGY (BIO)**

**BIO 101. Introduction To Nutrition (formerly NUT101). 3 Credits.**
This course introduces the broad aspects of nutrition as it applies to human existence. Included in the topical analysis are items related to digestion, essential nutrients, energy balance, vitamins, water, fitness, and weight control, as well as a discussion of changing needs of individuals as they age or become ill. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**BIO 102. Introduction To Forestry. 4 Credits.**
This course provides a general introduction to the practice and profession of forestry. This course will not result in becoming a forester but will equip participants with the tools to understand forest ecology and forest management decisions. This course will allow you to communicate with foresters and understand forests' complexity, their values, and the factors influencing forest stewardship. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

**BIO 103. Human Health And Disease. 3 Credits.**
This lecture-based course describes the basic structure and function of most organ systems within the context of some common human diseases. Homeostasis, the dynamic equilibrium in which the internal environment of an organism is maintained fairly constant, is the theme of this course that allows the understanding of certain common diseases. Students with little science background will investigate human disease within a personal context. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

**BIO 104. Introduction To Natural Resource Conservation. 4 Credits.**
This is an introductory course in natural resource conservation that will provide comprehensive overview of local, regional, and global resource and environmental issues. Topics will include population growth, soil conservation and agriculture, aquatic environments, air and water pollution, forest and wildlife management, global climate change, and energy usage. Strategic thinking towards sustainability will be a unifying theme in exploring the natural resources we depend upon in our complex, interconnected global environment. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**BIO 105. Current Topics in Biological Science. 3 Credits.**
This course will give the student an exposure to, and understanding of, contemporary issues in biological science. Topics may change each semester. Representative topics to be explored might include antibiotics, antibiotic resistance, and vaccination, genetic engineering, climate change and its impact on food, water and disease, bioterrorism, overpopulation, and nutritional supplements. Topics will be explored through a variety of avenues, including discussion, readings, videos, and student research. Prerequisites: ENG 098, MAT 092 (or co-requisite), RDG 098, or placement.

**BIO 109. Biology I. 4 Credits.**
Biology, as a science, represents a way of interacting with the world in a rational manner. The nature of science, cellular structure and function, the molecules of life, the acquisition and use of energy by living organisms, the code of heredity, principles of genetics, and genetic recombination will be considered in this course. Lab sessions will be hands on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**BIO 110. Biology II. 4 Credits.**
Biology is the study of life. This course will consider the origin and evolution of life on Earth, natural selection, the diversity and the unity of life in all its many forms, the geological timelines as it applies to evolution, the modern sciences of taxonomy and phylogeny, including analysis of proteins, RNA and DNA for the purpose of building phylogenies of organisms, human evolution, and behavior as an adaptive mechanism. Lab sessions will be hands-on experiences revolving around the topics of the course. Two and one half lecture/discussion hours and two lab hours per week. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement; BIO 109 strongly suggested.

**BIO 113. Life Science for Allied Health (formerly BIO 099). 3 Credits.**
This course is designed to prepare students to succeed in Anatomy & Physiology I and II. Students build a foundation of biology concepts related to chemicals critical to life, cellular structure and function with emphasis on cellular transport, energy production and molecular genetics. Instruction will actively engage students in their learning and student success skills are integrated with the scientific body of knowledge as students prepare to enter various allied health programs. A GRADE OF 'C+' OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisites: ENG 098, MAT 092 (or corequisite), RDG 098 or placement.
BIO 116. Ecology. 4 Credits.
This course is the study of relationships between organisms and the environment. Ecology is a broad scientific discipline ranging from the study of individual organisms to the global scale. This is a course in modern experimental ecology that emphasizes the conceptual foundations of the discipline. Natural history provides our foundation, while evolution is the conceptual framework. The laboratory focuses on lab and field experiments that use the scientific method to demonstrate key concepts and develop an understanding of experimental and statistical methods commonly used in ecology. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

BIO 120. Horticulture. 4 Credits.
This course is designed for those students interested in understanding the processes by which plants grow and how that understanding can be used to improve the quality of plants grown in the garden, the landscape, and the home. Students will also examine the structure and function of flowering plants. A workshop approach will be used and experiments will be conducted in the lab and greenhouse. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

BIO 122. Zoology: The Biology Of Animals. 4 Credits.
This course focuses on the unity and diversity within the animal kingdom. Animals are found in every environment and have various roles or niches that they occupy in these environments. Each environment presents different problems that these animals overcome with various structural, functional, and behavioral adaptations. The study of these adaptations is the central theme of this course. Laboratory is an integral part of this course with a focus on comparative anatomy through dissection of preserved specimens. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092, or placement.

BIO 128. Plants And Society. 3 Credits.
This course is a survey course looking at the origins, historical, and current use of plants in societies including food, spices, clothing, beverages, building material, and medicines. The search for and exploitation of many plant species by humans have directly and indirectly shaped the geopolitical world we now live in. These topics will follow a brief introduction to basic plant structure, function, and life cycle. The increasing role of plants in biotechnology will also be studied, as well as the important uses of algae and fungi as they relate to people, plants, and plant products. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

BIO 130. Plant Science. 4 Credits.
This course includes basic plant structure and function. This will include the anatomy and physiology of the plant cell, tissues, roots, stems, and leaf growth and development. Laboratory will include the study of the above with preserved and live specimens and with field study where possible. The effects of various plant pathogens on plant growth will be considered. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

BIO 140. Introduction To Greenhouse Management. 4 Credits.
Theory and practice of operation/management of a commercial greenhouse will be the major content of this course. This course will integrate the science of the greenhouse industry with the need to remain competitive. This four-credit lab science will use the MWCC greenhouse to study the science of the greenhouse including root substrate, fertilizer formulations, and the business of greenhouse management. Emphasis will be placed on chemical/non-chemical methods of control of plant pathogens. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

BIO 141. Fundamentals of Sustainable Agriculture. 4 Credits.
This course will explore what is meant by sustainable agriculture in contrast with “conventional” agriculture that has evolved and been practiced since the end of WWII. Food production in this country and much of the world has become an industrialized, mass production model with various high cost, chemically synthesized inputs supported by government policies, including the Farm Bill. In addition, a majority of commodity crops grown today in the USA are genetically engineered, which began in the 1990’s. We will exam alternatives to our “conventional” system of food production focusing on issues surrounding soil and water management, fertilization, pest control, and nutrient dense food production. These and other topics will not only be studied through classroom discussions, current readings, and documentary films, but also experientially through visits to local farms in our area. These interactive visits will expose students firsthand to a variety of growers that are practicing sustainability in producing farm products, both plant and animal. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or permission of Division Dean. Fall.

BIO 145. Introduction to Field Biology. 4 Credits.
A strong educational foundation in scientific principles should be rooted in some way to our own understanding of natural ecological systems. There are incredible challenges encountered when attempting to experimentally test scientific theories under unpredictable...
natural biological systems. Although not all students in introductory Field Biology courses will go on to become research scientists, the skills acquired in courses like this provide training on basic ecology, taxonomic identification, ecological survey methods, complex interactions, hypothesis testing, data analysis, and results interpretation. Lectures will be posted on Black Board three times per week and will be based on the text and supplemental material on related topics. The Laboratory portion of the course will include 6 hr. and will consist of approximately 2/3 field work mostly at Wachusett Mountain State Reservation and 1/3 examination and specimen identification in the laboratory on campus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or permission of Division Dean.

BIO 152. Essentials of Anatomy and Physiology. 4 Credits.
Essentials of Anatomy and Physiology is an introduction to the basic anatomy and physiology of the human body with an emphasis on the interrelationships among the systems and their maintenance of homeostasis. The disruption of homeostasis in several disease models and in the aging process will also be considered. This course is designed for students pursuing a degree in selected programs such as practical nursing in Health Information Management. Class will focus on the physiology of the body systems while lab will primarily cover anatomy. In class and lab students will be expected to engage in independent and collaborative learning through analysis of case studies, problem solving, and hands-on laboratory exercises. A considerable amount of time outside of class is required to master course content through case study analysis, disease research, web based programs, and other assignments. Prerequisites: ENG 098, MAT 092, and RDG 098 or placement.

BIO 203. Anatomy and Physiology I (formerly BIO 199). 4 Credits.
This course applies the chemical and cellular basis of life to the human body systems focused on control & movement. An in-depth-study of the structure and function of the muscular, skeletal, nervous, endocrine and reproductive systems is provided. Instruction will actively engage students in their learning of theoretical concepts listed in the course syllabus; students also apply these concepts through hands-on laboratory experiences listed in the course syllabus. Students are strongly discouraged from taking BIO 203 concurrently with BIO 204. Prerequisites: Grade of C+ or better in BIO 113 (preferred) or BIO 109; ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 204. Anatomy and Physiology II. 4 Credits.
This course applies the chemical and cellular basis of life to the human body systems focused on processing & transporting chemicals. An in-depth-study of the structure and function of the digestive, cardiovascular, respiratory and renal systems is provided. Instruction will actively engage students in their learning of theoretical concepts listed in the course syllabus; students also apply these concepts through hands-on laboratory experiences listed in the course syllabus. Students are strongly discouraged from taking this course concurrently with BIO 203. Prerequisites: Grade of C+ or better in BIO 113 (preferred) or BIO 109; ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 205. Microbiology. 4 Credits.
This is a transferable four-credit laboratory science course. It is a required course for the Nursing curriculum at MWCC. It is recommended for students planning careers in health sciences or animal and plant sciences and will satisfy a lab science requirement here, or for transfer. In addition to a discussion of bacteria, fungi, protozoa, and other parasites, this course will discuss practical applications of the techniques of microbiology to the health care and industrial fields. This course is a medically-oriented course that surveys the broad aspects of this field of study. Topics include morphology and nutrition of microbes, pathogenic processes, host-defense mechanisms, allergy, antibiotic therapy, and a review of the common diseases of each system of the body. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

BIO 209. Human Sexuality. 3 Credits.
This course is an in-depth study and discussion of all aspects of human sexuality. Emphasis will be on biological aspects and influences on human sexuality. Topics to be considered include structure, function, and dysfunction of the reproduction system, prenatal sexual development, achieving gender identity, sexual behavior, sexual signaling, health and control of sexual reproduction, correcting problems of sexual expression, divergent sexual behavior, and sexually transmitted diseases. Various media forms will be used. A primary objective of the course is a better understanding of one’s own sexuality. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement. Offered occasionally.

BIO 210. Genetics. 4 Credits.
This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, and biotechnological applications. Students will learn about recent advances in biotechnology that have genetic implications, including the Human Genome Project and advances in genetic engineering technology. Emphasis will be placed on techniques of DNA extraction, DNA amplification (PCR), and recombinant DNA techniques. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: BIO 109, MAT 162 (or corequisite). Spring.
**BIO 215. Cell Biology (formerly BIO 170). 4 Credits.**

Cell biology is the study of the structure and function of prokaryotic and eukaryotic cells. In this course we will examine many different areas of cellular biology including: the structure, function, and biosynthesis of cellular membranes and organelles; cell growth and oncogenic transformation; transport, receptors, and cell signaling; the cytoskeleton, the extracellular matrix, and cell movements; chromatin structure and RNA synthesis. Laboratories will focus both on exercises that help illustrate cellular phenomena, as well as on the introduction of techniques and procedures commonly utilized in modern cell and molecular biology research. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: BIO 109 and MAT 162 (or corequisite). Spring.

**BIO 240. Survey of Diseases. 3 Credits.**

This course will give the student an understanding of the various common diseases that are found in the different body systems. Emphasis will be on signs and symptoms, diagnosing methods, and treatment of the diseases. Course is geared for Allied Health majors. Prerequisite: BIO 152. Spring.

**BIOTECHNOLOGY/BIOMANUFACTURING (BTC)**

**BTC 101. Introduction To Biotechnology I. 4 Credits.**

Topics in this course are designed to acquaint students with the diverse field of biotechnology and to develop fundamental skills in the common laboratory techniques used in biotechnology. Students will learn about the history of biotechnology, job opportunities in biotechnology, recombinant DNA and protein products, microbial biotechnology, plant biotechnology, DNA fingerprinting and forensic analysis. Current ethical issues such as stem cell research and cloning will also be discussed. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Offered occasionally. Prerequisites: ENG 098, FYE 101, MAT 162 or higher (or corequisite), RDG 098, or placement. Spring.

**BUSINESS (BUS)**

**BUS 105. Business Ethics. 3 Credits.**

This course is designed for the student with an interest in organizational and business ethics. The focus is on how we act as individuals and how we contribute to group accountability. The class will provide each student with a framework for thinking in an ethical manner. In addition, the class will explore everyday ethical thinking. Most topics will be explored using the case study method. Although designed for the business student, this class is open to all students with an interest in exploring everyday ethical behavior on an individual and group level. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**BUS 112. Introduction To Customer Relations. 3 Credits.**

This course focuses on practical information that will enable both the student and practicing customer service professional to enhance, hone, and refine their service skills. The course is designed to equip individuals with the strategic necessities to effectively interact with and deal with a multitude of customer-related service issues that are an integral part of the customer service job function. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**BUS 125. Communication For Business And Industry. 3 Credits.**

Students are introduced to concepts relating to communicating in a diverse workplace. Emphasis is placed on nonverbal communication, the writing process, and email. Students learn how to write memos and letters and communicate with customers, research and use information, develop and use graphic and visual aids. Students prepare reports and presentations; develop skills to communicate through the application and interview process. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**BUS 201. International Business. 3 Credits.**

Students will most likely work for a company that is either foreign owned, domestically owned but has some foreign operations, or domestically owned but is affected by the global economy. Thus, this class will prepare students to be successful and productive in their careers based upon an understanding of the basics of why companies conduct business across borders. Since even small businesses are becoming more active in the international business environment through activities such as buying and supplying components, students who are planning to start their own businesses should also be cognizant of international business. This class will also stress the importance of cultural literacy and will help students develop the type of cultural literacy that will enable them to be conversant within the global economy and international marketplaces. Offered online only. Prerequisite: ENG 101.

**BUS 211. Business Law I. 3 Credits.**

This course introduces and examines business transactions and issues with a major emphasis on contract law and the Uniform Commercial Code and historical foundation of the Common Law. Topics that will be examined in this course include: Constitutional Law, Intellectual Property, Tort Law, Consumer Protection, Alternative Dispute Resolution, Employment and Labor Law, Discrimination, immigration and the varied forms of business entities including, but not limited to, Sole Proprietorships, Corporations, LLC’s LLP’s and Partnerships. The focus of this course will be to provide a comprehensive examination of the laws regulating
This course provides the student with an understanding of the fundamental principles of matter and energy. The course includes atomic and molecular structure, the periodic table, patterns of chemical reactivity, solution chemistry, stoichiometry, thermochemistry, and chemical bonding. A mathematical approach to chemical problems is used to develop problem solving skills as well as a conceptual understanding. Laboratory work is correlated with class discussion. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 162 (or corequisite), RDG 098 or placement; Recommended: High school chemistry or other previous chemistry classes.

CHE 108. General Chemistry II. 4 Credits.
A continuation of CHE 107 General Chemistry I, this course covers such topics as intermolecular forces, behavior of gases, liquids and solutions, chemical kinetics, equilibrium, oxidation-reduction and electro-chemistry. A mathematical approach to chemical problems is used to develop problem solving skills as well as a conceptual understanding. Laboratory work is correlated with class discussion. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. A grade of C or better in this course is required for advancement to CHE 207. Prerequisite: CHE 107; MAT 162.

CHE 120. Environmental Chemistry. 4 Credits.
This course is an introduction to the principles of chemistry with an emphasis on the environmental chemistry of air, energy, water and soil. It is recommended as a general science elective or as a foundation for continued study in the sciences, particularly natural resources. The following basic chemical topics will be introduced: matter classification, atomic structure, periodic table, chemical bonds, chemical formulas and names, spectroscopy, solutions, concentration, pH, moles and the use of energy. The course emphasizes an understanding of current environmental problems, such as air and water pollution, the ozone layer and energy issues. The relationships between science, technology and society are also discussed in the context of environmental issues. Lab sessions will
be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement. Fall.

**CHE 180. Instrumental Analysis. 4 Credits.**
This course provides an introduction to the use of instruments a Laboratory Quality Technician will encounter. The fundamentals of using instrumentation to measure chemical properties and concentrations will be covered; this will include sample preparation, calibration, and data analysis. The lab portion will provide hands-on experience with a variety of different analytical chemistry techniques and instruments (e.g. UV-VIS spectrophotometry, Infra-red spectrophotometry (FTIR), liquid chromatography, etc.). Some physical testing may also be included. Prerequisite: MAT 162 (or corequisite) or placement; CHE 107, CHE 120. Spring.

**CHE 207. Organic Chemistry I. 4 Credits.**
Organic chemistry is the study of carbon and its compounds. In the first semester, the structures and properties of the basic hydrocarbons and their simple substitution products will be studied. This will allow us to explore the following fundamental topics in organic chemistry: isomers, nomenclature, basic reaction mechanisms, spectroscopy (IR, NMR and MS). The functional groups will be introduced. Laboratory work will develop basic skills and techniques and be correlated with class discussion. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: CHE 108 with a grade of C or higher; MAT 163 (or corequisite). Fall.

**CHE 208. Organic Chemistry II. 4 Credits.**
Organic chemistry is the study of carbon and its compounds. In the second semester, the structures and properties of the substituted hydrocarbons (functional groups) will be studied. This will include their synthesis and their reactions. The use of spectroscopy (IR, NMR and MS) will be further developed. Multistep synthesis of complex organic compounds will be introduced. Laboratory work will develop more advanced skills and techniques and be correlated with class discussion. Lab sessions will be hands on experiences revolving around and applying the topics listed in the lab section of the syllabus. A formal research lab report that incorporates previous scientific learning will be required in this course as a capstone experience. Prerequisites: CHE 207; MAT 163 or higher (prerequisite or corequisite). Spring.

**COMPLEMENTARY HEALTH CARE (CHC)**

**CHC 101. Introduction to Complementary Healthcare. 3 Credits.**
This course is an introduction to the theories and practices of complementary health care. Wellness and disease are explored in terms of their relationships to lifestyle behaviors, responses to change and transition, and consciousness (mindfulness or moment-to-moment awareness). There will also be an introduction to several complementary treatments that can be incorporated into one’s lifestyle to improve and enhance health. Complementary health care practitioners will be guest speakers complementing the program with their expertise. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**CHC 102. Foundations of Yoga. 3 Credits.**
This course will examine in detail the multifaceted jewel known as yoga from its earliest beginnings in ancient India to its contemporary applications in the health field. Topics covered include, but are not limited to, philosophy and psychology of yoga, yoga as a science of well being, and the psychophysiology of yoga. Students will practice techniques of yoga to include breath and mind work. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**CHC 105. Introduction To The Chakra System. 3 Credits.**
With an understanding of the Major Chakra System, students gain the knowledge to accelerate the healing process of issues affecting the body, mind, and spirit system. This course provides a thorough investigation into one process that can be used for preventive measures to keep one’s optimum health on track. Students will come to an understanding as to what is meant by energy healing, especially in reference to their Chakra system, the aura, meridians, and other vital points in the body system that are used to promote better health conditioning. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**CHC 108. Transforming Stress. 3 Credits.**
This course provides students with an opportunity to explore the subject of stress management in an academic context. Scientific research related to the causes and effects of stress will be examined. In this course students will be taught relaxation, meditation, and other strategies for transforming stress by comprehending the effects of stress on the human condition, analyzing one’s own stress triggers and levels, and practicing a variety of stress management tools to incorporate into one’s lifestyle. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**CHC 110. Reiki: Traditional Usui Method. 3 Credits.**
Reiki is an ancient healing method. It is a natural healing energy that can be stimulated in the body through the hands of the practitioner to another person. Its gentle hand patterns are designed to bring the body and mind to a state of relaxation, which enhances the body’s own natural ability to heal itself. No special belief systems are necessary. Through the assistance of the instructor, the
student will learn the technique of stress reduction. Students will learn three practitioner levels of Usui Reiki. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**COMPUTER ASSISTED DESIGN (CAD)**

**CAD 101. Introduction to CAD. 3 Credits.**
This course is an introduction to computer assisted design (CAD) and learning to navigate both 2D and 3D design environments, using the application tools and features. The 2D basics will include menus, tabs, toolbars, drop-down lists, the command line, drawing space, layers, line types, and hatching; as well as creating, saving and opening files. Students will draw multiple views, isometrics, sections and auxiliary views of objects, including dimensions. The 3D basics will include menus, toolbars, drop-down menus, features, command manager, feature manager and drawing space. Students will create parts by drawing sketches and adding features. The parts will be combined to form an assembly and 2D drawings will be generated from the parts. Students will also learn to edit sketches and features, as well as add relations to their designs. The 2D CAD application introduced will be AutoCAD or DraftSight (an AutoCAD clone). The 3D CAD application introduced will be Solid Works, Inventor, Creo Parametric or NX. Since all of the 3D CAD applications function in similar ways, the knowledge of one can be extended the others. Similarly, the knowledge of a 2D CAD application can be extended to another. This course is a fundamentals approach and requires no experience with other CAD programs. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**CAD 203. Design CAD (Formerly CAD 110). 3 Credits.**
This course will build upon the student's knowledge of CAD to produce advanced designs. Several design projects may include conceptual design of commercial products with supporting manufacturing fixtures or residential-commercial structures with supporting architectural plans. The course will require projects as a means of overall assessment. Emphasis will then be placed on the steps of the design process while utilizing AutoCAD, Solid Works, Siemens NX, Works or other computer aided design software. The goal is for students to become independent users of information, computer technology, and library resources. Students will be expected to communicate and collaborate throughout the course as they present their projects and assignments. 3D printing will be explored. Prerequisites: CAD 101.

**COMPUTER INFORMATION SYSTEMS (CIS)**

**CIS 109. Introduction to Programming. 3 Credits.**
This course introduces students to fundamental problem-solving and programming concepts using the high-level language Python. Topics covered include data types, variables, constants, decision statements, repetition, functions, string processing and file I/O. Prerequisites: FYE 101, MAT 092, RDG 098, (or placement).

**CIS 113. CIS Internship. 3 Credits.**
This internship experience will allow students to apply computer information skills, perform information technology tasks and develop professional attitudes while interacting with professionals in the field. Students must pass a CORI check prior to beginning the internship. Placements may be made at a profit or not-for-profit business. The placement must be a site approved by the professor. The basis for the grade will be a combination of a reflective journal log, student participation, log of hours, and internship supervisor evaluations. Student participation will include sharing their experiences at the internship site, the preparation of a resume, participation in interviewing techniques and mock interviews. The field experience and weekly meetings on campus will equal 120 hours. This is a three-credit course. Prerequisite: The completion of 15 credits in one of the CIS degree or certificate programs and a GPA of 3.0 are required.

**CIS 118. Mobile and Web Development. 3 Credits.**
This course will cover topics that include web servers, web development software such as Expression Web and Notepad++, web languages (HTML5/XHTML and CSS), as well as mobile and website development. Students will learn how information is transferred over the Internet, how to write HTML5 and CSS code, and how to create, maintain, and publish a website for both mobile and traditional desktop devices. Topics will include working with forms, tables (and when to substitute tables with other formatting in mobile), images, graphics, hyperlinks, media queries, viewports, page weigh, network load (and testing), emulator use, and a one web design approach. All students will be expected to create, maintain, and publish several websites on a college web server. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

**CIS 121. Spreadsheet Applications. 3 Credits.**
Students should be comfortable with basic computer usage prior to enrolling in this course. Essential computer skills include utilizing web browsers and email as well as managing files and folders (save, locate, open, create, delete). This course is designed to develop spreadsheet skills, with an in-depth study of spreadsheet design and analysis as they relate to business applications. Topics include the fundamentals of spreadsheet design, coverage of business formulas and functions, linking multiple worksheets and files, proper layout and design, and an introduction to macros using the Visual BASIC for Applications (VBA) language. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.
CIS 123. Microcomputer Database Management. 3 Credits.
This course is for students who are already familiar with computer use. Students must know how to use web browsers, email and manage files and folders (save, locate, open, create, delete). This course uses a database software package for a wide range of applications. Students create tables, construct queries, design forms, and generate reports. Students will also utilize constraints, data types, primary and foreign keys; define relationships and database design concepts; as well as import and export external data. Students will create action queries as well as select queries that use aggregate functions, calculated fields, wildcards, keywords, comparison criteria, Boolean terms, and table joins. Prerequisite: MAT 092.

CIS 127. Computer Technologies. 3 Credits.
This course is for students who are already familiar with computer use. Students must know how to use a word processor, web browsers, email and manage files and folders (save, locate, open, create, delete). A variety of computer applications will be used as tools to increase students’ productivity in school and in the workplace as well as enhance their problem solving ability. Students will use utilities to perform basic computer maintenance; evaluate computer hardware and devices for purchase based on need; identify and assess user habits in regard to security threats and vulnerabilities (including viruses, malware, spyware, firewalls, passwords, encryption, and privacy); locate, evaluate and use electronic information sources (including academic databases) to solve problems and enhance software skills; use a spreadsheet application to record data, perform calculations, create graphical representations, and interpret results; write and publish web pages using HTML tags (headings, paragraphs, lists, images, and links) and CSS (color, background, and font family); use Microsoft Access to create and execute queries (with Boolean terms and aggregate functions), as well as assess results; generate reports on tables and query results in Microsoft Access. The goal is for students to become independent users of information, computer technology, and library resources. Students will be expected to communicate and collaborate throughout the course as they present their projects and assignments. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement).

CIS 128. Introduction to Information Systems. 3 Credits.
This course provides a broad overview of information systems and their components. Students will learn the basic concepts of systems, business and web services software, networks, data storage and management, information and systems security and the development of information systems. Word processing, spreadsheet and database applications are utilized throughout the course to apply concepts to real-world examples. Electronic communication, presentation, and collaboration applications are also utilized to develop essential computing skills. Prerequisite: ENG 098, RDG 098, FYE 101, or placement.

CIS 131. Linux Programming. 3 Credits.
This course provides students a solid foundation in the fundamentals of the Linux operation system. Students gain system level experience through problem solving exercises at the command line and in the graphical use interface. Students learn the essential command-line commands necessary to be accomplished users of their Linux workstations, as well as be able to use the GUI when appropriate. Prerequisite: CIS 140.

CIS 132. iOS (iPhone and iPad) App Development. 3 Credits.
This course will teach you how to make your own iPhone and iPad apps utilizing the Swift language within the xCode IDE on MAC computers. Students (in the on campus class) will not be required to purchase Apple computers to complete classwork; additional lab time will be scheduled for assignments. And open lab time will also be available. Topics covered will include: basic iOS, xCode and Interface Builder, xCode Playground, testing on the iOS Simulator, Storyboards, the Cocoa Touch Frameworks, UIKit, Controls, previous introduction to programming topics (i.e. -- variables, control flow, functions, and arrays), classes, and security. Prerequisites: CIS 109 or permission from the instructor. Spring.

CIS 140. Microcomputer Networking Applications. 3 Credits.
This course provides students with the necessary knowledge and skills to perform competently in the role of network administrator or system manager. Major topics include networking concepts, setting up user and group accounts, securing network resources, configuring and administering network printers, backup, auditing events, and monitoring network resources. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

CIS 141. Supporting Private Clouds. 3 Credits.
This course will instruct future network administrators how to effectively implement and maintain private clouds with a balance of conceptual expertise and hands-on skills. With a focus on server administration, this course will introduce working with Virtual Machines and prepares students to work with large providers such as Amazon, Microsoft, and Google, as well as implement smaller scale cloud computing solutions within their own network environments. Specific topic coverage includes: Introduction to the Private Cloud, Creating and Managing Virtual Machines, Configuring the Hyper-V Environment, Installing and Using Virtual Machine Manager, Installing and Using the Self-Service Portal Using the Virtual Desktop Infrastructure (VDI), Implementing High Availability in the Private Cloud, Managing High-Availability Clusters and Managing the Private Cloud with PowerShell. Prerequisite: CIS 140.
CIS 142. Web Server Management. 3 Credits.
This course teaches students how to support the various features of an Internet information server. Learn how to configure a server for Internet access and publishing. Internet connectivity options, compare Internet and Intranet implementations, install and configure a web server, and optimize server performance. Prerequisite: CIS 140.

CIS 143. Computer Service and Repair. 3 Credits.
This is a current and comprehensive course on configuring, diagnosing, and repairing microcomputers and associated technologies. (PC compatible units are used in this course.) Topics covered include how computers work, how software and hardware work together, the systems board, understanding and managing memory, floppy disk and hard disk drives, installing and supporting disk drives, troubleshooting fundamentals, supporting I/O devices, and multimedia technology. Completion of this course will assist the student in preparing to pass the A+ certification exams and succeed in the PC repair industry. No electronic experience is assumed or required. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

CIS 144. Network Security. 3 Credits.
This hands-on course is designed to prepare students for the security challenges they will face as a networking professional. Specific topic coverage includes designing a secure network framework, securing servers based on function, designing a secure public key infrastructure, securing the network management process, securing network services and protocols, securing Internet information services, securing VPN and extranet communications, securing active directory, securing network resources, and securing network clients. Prerequisite: CIS 140 or permission of division dean.

CIS 150. Computer Science I. 3 Credits.
This course introduces students to Computer Science through software development using an object oriented programming approach. Programming topics include: data types, expressions, conditions, iteration, arrays, methods, classes and objects. Algorithm development, integrated development environments, debuggers, test plans and documentation is also covered. Prerequisites: FYE 101, MAT 092, RDG 098, (or placement).

CIS 152. Computer Science II. 3 Credits.
This course builds on the concepts covered in Computer Science I. Programming topics include: inheritance, polymorphism, GUI programming, exceptions, recursion, and file and database input/output. Using object oriented programming(OOP) techniques, an introduction to data structures including stacks and queues is included as well as an introduction to sorting algorithms. Prerequisites: Grade of C or higher in CIS 150 or comparable programming experience. Spring.

CIS 219. Principles Of Information Security. 3 Credits.
This course provides students with a broad overview of information security and serves as the capstone course for the Computer Information Systems degree program. The required networking, database and programming courses for the Information Systems degree program lays a solid foundation for learning information security terminology and measures that protect confidentiality, preserve integrity, and promote availability of data. Topics include security policies, security models, business continuity plans, computer crime and security laws, physical security, operations security, access control, cryptography, Internet security and application development security. Students will complete at least one major research and writing project, at least one oral class presentation, and work on at least one team project. Students should find the topics covered informative and useful for their career in the Information Technology field, and the topics serve as a foundation for advance studies in Information Security. Prerequisite: Completion of 24 CIS credits or permission of division dean.

CIS 224. Beginning Pl/Sql. 3 Credits.
This course is designed to teach data modeling and PL/SQL skills. Students will be able to define a well-structured relational database; use database design concepts to create tables, keys, and constraints; and apply business rules and normalization models while creating ERDs and data dictionaries. Students will also write and run scripts to create tables and insert and delete records. Students will create select queries (using 'where' and 'order by' clauses, aggregate functions, inner and outer joins, and 'having' and 'group by' clauses), as well as action queries to update, delete, and append data. Additionally, students will generate functions, procedures, and triggers. Prerequisites: CIS 150 (or corequisite); CIS 127 or CIS 128. Spring.

CIS 232. Programming C++. 3 Credits.
This course is an introduction to C++ as an object-oriented programming language. The fundamentals of data types, variables, access modifiers, scope, selection structures, repetition structures, functions, and arrays will be covered using C++ classes and objects. Key topics in object oriented program design include encapsulation, information hiding, member access control, constructors, destructors, software reusability, member functions, overloaded functions and operators, and dynamic memory allocation. All students will be expected to write programs in C++ to exercise these topics. Prerequisite: FYE 101, MAT 092, RDG 098, or placement.

CIS 250. Systems Programming. 3 Credits.
This course covers the fundamentals of systems programming. The Linux application programming interface (API) and the C language are used to introduce students to lower-level programming by using system calls and key components of the C library to develop applications and scripts that interface with the operating system. Prerequisites: C or higher in CIS 152, MAT 180. Fall.
CIS 252. Algorithms and Data Structures. 3 Credits.
This course introduces essential data structures and algorithmic analysis for the design of efficient computer programs using an object oriented programming language. Some of the data structures designed and implemented include linked lists, stacks, queues, trees, heaps, hash tables, and graphs. A mathematical framework for evaluating efficiency of algorithms is covered. The analysis of algorithms for searching, traversing trees, hashing, manipulating priority queues, sorting, and finding shortest paths in graphs is included. Recursive algorithms are used when they can improve efficiency. Prerequisites: C or higher in CIS 152, MAT 180. Spring.

COOPERATIVE EDUCATION (CED)

CED 205. Study Abroad Experience. 1-18 Credit.
This course offers students the opportunity to study abroad. This involves a partnership between MWCC and a host institution or sponsoring US college or university conducting coursework in another country. Offered by arrangement only. Prerequisite: Permission of Dean.

CRIMINAL JUSTICE (CJU)

CJU 110. Introduction To Criminalistics (formerly CJU 234). 3 Credits.
This course is designed to introduce the concepts involved in the field of criminalistics. The students will be introduced to the concepts of criminalistics from the professional and scientific disciplines dedicated to the recognition, collection, identification, and individualization of physical evidence. The application of the natural sciences to matters of the law will be examined. Actual court cases will be used to illustrate facilitation of the identification process, and students will learn to prepare crime scene evidence reports. Practical application of selected laboratory procedures may be included. Prerequisites: ENG 098, RDG 098, (or placement).

CJU 131. Introduction To Criminal Justice. 3 Credits.
Students survey the criminal justice system in the United States including its main components: law enforcement, courts, and corrections. Special emphasis is placed on the sequence of events and decision points within the system, as well as historical and societal influences, and student will utilize various assigned sources to prepare incident and police reports. The functions of federal, state, county, and local agencies are examined. A brief overview of the juvenile system is included. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. This course should be taken during a student's first semester as a Criminal Justice major.

CJU 133. Criminal Law. 3 Credits.
This course studies the nature, aims, purposes, and principles of criminal law, including both the general and specific parts of the law of crimes. Emphasis is placed on critical analysis of specific elements, rules, doctrines, and defenses. Students actively participate by applying knowledge of laws and doctrines to actual cases through written and oral exercises including multiple case briefs. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

CJU 134. Criminal Procedure. 3 Credits.
Emphasis is placed on the constitutional authority to apply the process of enforcement of the law. Attention is given to admissibility of evidence used to convict. Through case study, procedural matters affecting the criminal justice system such as arrest, search and seizure, warrants, admissions, stop and frisk, and identification, pretrial proceedings, conviction, and post-conviction processes are examined, and student will utilize contemporary sources to prepare memorandums and case briefs illuminating assigned coursework. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

CJU 228. Effective Written Communication for the CJ Practitioner. 3 Credits.
This course is designed to develop the technical writing skills of students intending to become criminal justice practitioners. Students will develop the written communications skills needed to write research papers, reports, affidavits, crash reports, and complaint applications; and to produce legal and investigative materials which are complete and accurate, as well as prepare other types of written communications commonly used by the major agencies within the criminal justice system. This is a hybrid course which will meet one hour each week, and internet access will be required. Prerequisite: ENG 101.

CJU 232. Introduction To Criminology. 3 Credits.
Students will explore patterns of adult criminal and juvenile delinquent behavior through the examination of theories from a biological, psychological, and sociological perspective. The concept of crime as a social problem and efforts to measure the nature and extent of crime will be examined. Typologies of crime are studied, and schools of thought and various approaches to crime causation will be considered, and students will utilize current news sources to prepare memorandums illuminating assigned coursework. This course should be taken during a student's second semester as a Criminal Justice major. Prerequisite: SOC 103.

CJU 233. Criminal Investigation. 3 Credits.
This course examines the science and art of criminal investigation. Crime science and its specialized procedures and techniques related to physical evidence, interviews, rules of evidence, the investigator as a witness, and the investigative process to include follow-up investigations will be examined. Cases may be included to illustrate the investigative process. Practical application of
selected laboratory procedures may be included. Student will apply what they have learned via written research projects examining important contemporary criminal trends and/or events. Prerequisite: CJU 134 or permission of the division dean.

**CJU 245. American Policing (Formerly CJU140). 3 Credits.**
This course provides the criminal justice student with an in-depth understanding of the history, development and philosophy of American policing. Students survey the roles, operation, procedures and organizational structure used in modern law enforcement. Attention is given to ethical practices, police interaction with diverse cultures, and the importance of communication. The course emphasizes patrol and community as the mainstay of policing. Current problems, recent innovations and law enforcement as a lifelong career are included topics. Students will write about the impact of contemporary policing initiatives on criminal behavior. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**CJU 250. Introduction To Corrections. 3 Credits.**
This course surveys the historical, political, legal, and sociological aspects of the United States correctional system. Students examine differing philosophies and purposes of punishment, particularly as they impact correctional policy and practice. Emphasis is on studying various types of offenders within the system and understanding major issues regarding contemporary methods of handling criminal offenders. Students will write on a topic within the field of corrections (e.g., a specific gang, rival gangs, prison systems from different countries, various types of prison construction, the death penalty, etc.), answering questions including history, purpose, and evolution. Prerequisite: CJU 131.

**CJU 252. Internship In Criminal Justice. 3 Credits.**
This field experience involves extensive observation of and interaction in selected agencies. Placements include police departments, courts, probation, juvenile services, parole, correctional facilities, training academies, and related areas such as residential treatment programs. Students obtain a basic knowledge and understanding of the practical aspects of criminal justice through observation and selected participation. One seminar hour and eight hours of field experience per week are required. A consideration for placement will be the student's appropriate qualifications in relation to a specific agency. Students will maintain a weekly journal highlighting their on site learning. Prerequisites: completion of at least two criminal justice courses, sophomore status, and permission of division dean.

**CJU 255. Seminar In Criminal Justice. 3 Credits.**
In this capstone course, students analyze and articulate contemporary themes in order to demonstrate their mastery of the content of completed required courses within the degree. Students are required to read selected materials and analyze key topics in a seminar format. Students develop and prepare a major analytical research paper and conduct a seminar for fellow students. This course should be taken in the semester immediately preceding graduation. Prerequisites: ENG 102; completion of all required criminal justice courses (CJU 131, CJU 133, CJU 134, CJU 228, CJU 232, CJU 250), and at least one restrictive elective, or permission of division dean.

**DANCE (DAN)**

**DAN 120. Musical Theater Dance Styles (formerly MUS120). 3 Credits.**
This is a theatre dance workshop featuring various dance styles and choreography that are part of musical theatre history. The course will include basic training in ballet, tap, and jazz dance, as well as choreography and combinations from Broadway musicals. No previous dance experience is required. Prerequisite: none.

**DAN 133. Hip Hop/Street Dance Foundation. 3 Credits.**
This course will focus on foundations and origins of hip-hop and street dance. It is an introductory course, geared towards those with little or no jazz/hip hop dance experience, which breaks down the fundamentals of different styles of hip hop, including disco funk, locking, popping, grooving, vogueing, whacking and break dancing. In addition, it emphasizes cardiovascular condition, choreography, rhythm and musicality. Although designed to teach beginners it also challenges advanced students.

**DENTAL ASSISTING (DAC)**

**DAC 101. Dental Assisting. 3 Credits.**
This course provides an introduction to organized dentistry and the fundamentals of dental practice. The roles and qualifications of dental health care members according to the state dental practice act, an exploration of the dental specialties and assisting a dentist chairside will be the focus of the instruction. A comprehensive review of the skill sets needed for competency in four and six handed dentistry will include providing instrument transfer, a clear operating field through proper lip and tongue retraction, use of high volume evacuation and properly adjusting the light. Identification and knowledge of instrument use as each relate to a dental procedure will be a foundation for anticipatory chairside abilities. Laboratory and clinical sessions will also provide instruction and practice in supportive techniques such as placement of the rubber dam and matrix bands, charting and recording an oral exam, and sterilization and aseptic techniques. Exposure control, OSHA regulations, and hazard control recommendations will be introduced and reinforced throughout the course. Prerequisites: Current CPR certification, ENG 101, MAT 126 and BIO 152 or BIO 203 and BIO 204 with a C+ or higher. Fall.
DAC 102. Dental Science I. 4 Credits.
This course will introduce the student to oral embryology and histology, anatomy of the head and neck with a focus on oral anatomy, tooth morphology, and individual tooth identifications. The second half of the course will focus on microbiology, disease transmission and infection control. Learning opportunities will be offered in the form of lecture and demonstration, with the aid of anatomical models and extracted teeth so that the student will be prepared to identify individual structures of the mouth in preparation of lab and clinical experience. Prerequisites: Current CPR certification, ENG 101, MAT 126 and BIO 152 or BIO 203 and BIO 204 with a C+ or higher. Fall.

DAC 104. Practice Management. 2 Credits.
This course provides an introduction to basic practice management skills, business operating systems and financial management in a dental office. The components of the business operating system of an office will be introduced as will the skills needed in the financial management of an office. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

DAC 105. Dental Science II. 4 Credits.
This course will introduce oral pathology including diseases, lesions, conditions and disorders of the oral cavity followed by an investigation of caries and periodontal disease and the etiology, risk assessment and preventive measures for them. Pharmacology and the Management of Emergencies will be covered in the later part of the course. The student is provided with information and practice opportunities in dental and medical emergencies. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

DAC 110. Prevention. 3 Credits.
This course provides an introduction to Preventive Dentistry. The components of a comprehensive preventive program will include knowledge and theory of roles nutrition, patient education, plaque control therapy, fluoride therapy and sealants have in preventive dentistry. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, practice and manipulate on topical mannequins and then synthesize this learning by using peer partners. The student will be required to state the rationale and demonstrate proper technique for each preventive dental skill. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

DAC 115. Clinical Rotation. 7 Credits.
This course is integral for the student dental assistant to develop the functions introduced in the curriculum from a level of minimal competence to one of optimum proficiency. During this immersion experience students will rotate through two dental practices actively assisting and participating in patient care. A daily record of professional activities, including each clinical procedure assisted in and performed, and supportive lab and office procedures will be kept and provided for the course instructor to read and respond to. Seminars will be conducted weekly with a focus and discussion on an assigned area, with a case base presentations format. Prerequisites: Current CPR certification, DAC 101, DAC 102. Spring.

DENTAL HYGIENE (DHY)

DHY 101. Anatomic Science For The Dental Hygienist I. 3 Credits.
This course will introduce the student to the anatomy and histology of each tooth and all structures of the oral cavity. Learning opportunities will be offered in the form of lecture and demonstration, with the aid of anatomical models and tooth models so that the student will be prepared to identify individual structures of the mouth in preparation of clinical experience. The student will draw extensively on prior learning from principles associated with anatomy and physiology. Additionally, microbiology will be taken either prior to or concurrently and provide a framework for analysis within the scope of oral hygiene, tissues, and structure. Histology and embryology of the oral tissues and face, anatomy of the head and neck, tooth morphology, development and function, and individual tooth identification and morphology of the primary and permanent dentition will be covered. This course gives the dental hygiene student basic anatomical knowledge to utilize in the clinical component of the program. Prerequisite: Admission to Dental Hygiene program, current CPR certification, BIO 203, BIO 204, ENG 101, MAT 126. Corequisite: BIO 205, DHY 102, DHY 103.

DHY 102. Dental Hygiene Process Of Care I. 5 Credits.
This course provides an introduction to the clinical experience. The student is expected to develop an understanding of sterilization, aseptic techniques, and infection control. Additionally, the student is introduced to instrumentation and the proper use of dental apparatus. Essential management techniques for dental and medical emergencies are also introduced. The student is provided with initial exposure to the culture and climate of dental hygiene practice and given beginning knowledge of how to function in such an environment. Dental Hygiene Process and Care I (Pre-Clinic) is an introduction to the practice of dental hygiene. Content is heavily focused on assessment of health, safety, risk management, and patient needs. Additionally, time will be spent on identifying instruments and their proper application. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, practice and manipulate anatomical mannequins, and then synthesize this learning by using peer partners. Additionally, the student is provided with information and practice opportunities in dental and medical emergencies. In this fundamental skill course, students are introduced to the dental hygiene process through lecture and laboratory sessions. The theoretical concepts presented in lecture are expanded upon and applied in the laboratory sessions. Emphasis is placed on patient-client rationale.
and demonstrates proper techniques for each basic dental hygiene skill. Students must pass both laboratory and theoretical components of the course in order to continue in the program. To aid the student in the successful completion of the course, a progress report will be given to each student at the end of the eighth week of class. If any student obtains an unfavorable progress report, it becomes their responsibility to seek out their clinical instructors and/or course instructors for extra assistance. Prerequisites: Admission to Dental Hygiene program, current CPR certification, BIO 203, BIO 204, ENG 101, MAT 126. Corequisites: BIO 205, DHY 101, DHY 103.

**DHY 103. Dental Radiology. 3 Credits.**
This course is designed to introduce the student to the principles, theory and techniques of dental radiography. The student will become familiar with the history of dental radiographs, radiation physics, radiation hazards and protection, use of equipment, ionizing and digital processing, panoramic radiography, processing, mounting and radiographic interpretation of anatomic landmarks, including recognizing disease processes and deviations from normal anatomy. Using ADA guidelines, and ALARA principles the student will produce the highest diagnostic radiographs while exercising all the principles of radiation health and safety. Quality assurance and alternate and emerging radiographic imaging modalities are discussed. The laboratory component will focus on taking theory into practice for paralleling, bisecting, panoramic, occlusal and supplemental radiographic techniques. Upon completion of this course, the student will be able to expose, process, and mount a quality series of intraoral and extraoral radiographs to proficiency on the adult and child patient. Prerequisites: Dental Hygiene Prerequisites: Admission to the Dental Hygiene Program, current CPR Certification, BIO 203, BIO 204, ENG 101, MAT 126; Corequisites: DHY 101, DHY 102; Dental Assisting Certificate Prerequisites: current CPR Certification, DAC 101, DAC 102, DAC 104, DHY 106; Corequisites: DAC 105, DAC 110.

**DHY 105. Anatomic Science For The Dental Hygienist II. 3 Credits.**
This course will provide a theoretical and practical study of the head, neck, face, and oral cavity. Included are the bones and their landmarks, nerves and their landmarks, arterial blood supply, venous drainage, temporomandibular joint, lymphatics, fascia, spaces and the spread of dental infection. Muscles of the head, neck and masticatory system will also be studied. The lymphatic system, its function, and differences in the lymphatic system in health and disease will be covered. The temporomandibular joint, jaw movements with muscle relationships, and joint disorders will be studied. Fascia, spaces, the infectious process and the spread of dental infections will also be studied. This will enable the student to integrate the knowledge of the spread of dental infection into clinical dental practice. Review of landmarks for the administration of local anesthesia will be covered in depth. The student will gain knowledge into. The student will gain knowledge into the supporting structures of the head and neck and will be able to incorporate knowledge previously acquired in Anatomic Science I for the Dental Hygienist. Prerequisite: BIO 205, DHY 101, DHY 102, DHY 103. Corequisite: DHY 106, DHY 107, DHY 108.

**DHY 106. Dental Materials. 3 Credits.**
This course introduces the student to various types of dental materials used in dental practices. It allows the student to begin to understand the properties of the materials and actually manipulate them and provides the foundation for current practice in dental care. These materials include restoration materials (metals/composites), impression materials, sealants, mouth guards, prosthetics, tooth whitening, and temporary restorations. The student will learn to mix and prepare the various materials used. The role of the allied dental personnel in the manipulation and application of these materials is stressed. The classroom component will introduce the student to the properties of the materials and how to mix them proportionately. Emphasis is on the section, manipulation, and clinical management of dental materials particularly from the dental hygiene and dental practice perspective. Focus will be placed on the composition, chemistry, clinical properties, mixing techniques, advantages, disadvantages and setting times of more common materials utilized in the dental setting. The relationship between the oral environment and dental materials is also examined. Lab session are integrated with lectures to provide the student with opportunities to practice various techniques such as sealants, amalgam finishing and theoretical components of the course in order to continue in the program. Students must pass both the laboratory and theoretical components of the course in order to continue in the program. Dental Hygiene Prerequisites: BIO 205, DHY 101, DHY 102, DHY 103. Corequisites: DHY 105, DHY 107, DHY 108. Dental Assisting Prerequisites: BIO 152 and MAT 126. Corequisites: DAC 101 and DAC 102.

**DHY 107. Periodontology. 3 Credits.**
This course introduces the student to the healthy periodontium and periodontal diseases. Included are the classifications of periodontal diseases, the oral microbiology and periodontal diseases, local contributory risk factors and systemic risk factors for periodontal diseases, host immune response, and the histopathogenesis of periodontal diseases. The student will become familiar with gingival, periodontal, and radiographic assessment of periodontal diseases. Using an evidence-based approach, along with case studies, treatment modalities will be discussed with emphasis placed on dental hygiene diagnosis, treatment planning, clinical management, and evaluation of periodontal patients. Information in this course will build upon oral anatomy, microbiology, and pre-clinical dental hygiene concepts presented in the fall semester. Prerequisites: DHY 101, DHY 102, DHY 103. Corequisites: DHY 105, DHY 106, DHY 108.

**DHY 108. Dental Hygiene Process Of Care II. 6 Credits.**
This course provides a progression for the student from the content learned in DHY 102 Dental Hygiene Process of Care I. The major transition lies in students beginning to treat patients rather than practicing on mannequins. Content is heavily focused on
assessments of health, safety, risk management, medical emergencies, and patient needs, along with treatment planning and beginning implementation. Additional emphasis is focused on patients with special needs, nutrition, and patient education. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material and transfer this knowledge to work with patients in the clinic setting. Clinical experience is included on the child, adolescent and young adult patient. Prerequisite: BIO 205, DHY 101, DHY 102, DHY 103. Corequisite: DHY 105, DHY 106, DHY 107.

**DHY 201. Oral Pathology. 2 Credits.**
This course is an introduction to the study of oral and systemic diseases and disorders. Students will learn the principles of pathology in relation to disease of the head, teeth, soft tissues, and supporting structures of the oral cavity. It will familiarize students with the differential identification of normal oral tissues, oral lesion, and oral lesions due to systemic disease. The basis of instruction is derived from the paradigm of oral health and its juxtaposition to disease. Content will include discussion of inflammatory and immunologic process, development disorders, neoplasias, infections and diseased of the blood, bone, immune and endocrine systems. Other common pathology, such as oral cancer, leukoplakia, and nicotine stomatitis are covered in detail. As a supplement to clinical instruction, this course will provide a greater understanding of disease diagnosis, etiology, and pathogenesis. Diseases of the oral tissues and oral environs are presented with clinical features, some histopathology for explanation, course of disease(s), and treatment modalities. The purpose of this course is to instruct the student in recognition of anomalies and disease through the framework of a healthy patient. The students will be able to utilize the intraoral camera to reinforce their understanding of oral pathology. The parameters for normal dental health are taught in order to provide the basis of identification of illness and dysfunction. Prerequisites: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisites: DHY 202, DHY 203, PSY 105.

**DHY 202. Pharmacology For The Dental Hygienist. 3 Credits.**
This course will address the interaction of pharmacologic agents on the body systems. This course provides students with the understanding of the pharmacologic management of patients, the mechanisms of action of drugs and interactions associated with dental treatment. Drugs commonly used in dentistry and other classes of drugs, their effects on the body in care planning and treatment planning will be addressed. Emphasis is placed on mechanisms of action, common usages, side effects, implications for dental treatment and case studies. Nitrous oxide sedation will also be introduced along with the pharmacological aspects of general anesthesia. Prerequisite: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisite: DHY 201, DHY 203, PSY 105.

**DHY 203. Dental Hygiene Process Of Care III. 5 Credits.**
This course provides a progression for the student from content learned in DHY 108. The major transition lies in students treating patients with simple care to care of the more complex periodontal patient. Content is heavily focused on advanced instrumentation, health promotion, care planning, and treatment planning using advanced pain control techniques and medicaments for the complex periodontally involved patient. Theory and practice are combined in such a way that the student is afforded the opportunity to learn didactic material, and transfer this knowledge to work with patients in the clinic setting. This theory related practice assists the student in further developing critical thinking skills in the delivery of more complex patient care. There is an emphasis on the treatment of periodontal patients, advance dental caries and dentinal sensitivity. Total care of the patient is also expected at this point in the curriculum, utilizing a case centered approach. Lecture topics will be directed at the management of patients at different stages in the life cycle and methods for individualizing care. Students will be challenged to read, think and problem solve regarding the dental hygiene diagnosis and treatment with degrees of periodontal disease as well as other oral diseases. Prerequisite: DHY 105, DHY 106, DHY 107, DHY 108, DHY 205, ENG 102. Corequisite: DHY 201, DHY 202, PSY 105.

**DHY 205. Pain Control. 3 Credits.**
This course provides the student with the fundamentals of pain management used in dentistry. A variety of topical and local anesthetic delivery devices will be discussed and utilized. Neuroanatomy, neurophysiology and pharmacology of local anesthetics, vasoconstrictors and topical anesthetics will be covered. A thorough patient assessment including stress reduction protocol is utilized. Techniques of local anesthesia administration, including infiltration, field, and nerve blocks will be demonstrated and return demonstrations will be performed until competency is achieved. This includes injections for maxillary, mandibular, palatal and supplemental pain control. The expanded role of the dental hygienist to include administration of oral anesthetics for pain control necessitates a thorough exposure to the theory and practice of administration within the scope of dental hygiene education. This course will prepare the student to take the “Permit L” which licenses the student to administer local anesthesia in Massachusetts. Critical thinking skills, whole body patient management, local and systemic complications including emergency response to patient medical emergencies will be an integral part of the course. This course will introduce the student to utilizing pain management options in dentistry and provide basic techniques in choosing and administering anesthetics agents for pain control. Prerequisites: DHY 105, DHY 106, DHY 107, DHY 108. Corequisite: ENG 102.

**DHY 207. Dental Hygiene Process Of Care IV. 5 Credits.**
This capstone course will be offered in a hybrid online format and is a continuation of Dental Hygiene Process of Care III. Students’ progress from a didactic learning environment to a seminar discussion focused on experience. A strong knowledge base has prepared the student for an experience that transitions the role of student into one of practitioner. The student has had a level of preparation
to allow for independent thinking and judgment and this is encouraged. Dental hygiene students deliver comprehensive patient care in clinic by integrating preventive education and therapeutic oral health services. The lecture portion explores such topics as Case Studies on a variety of patients to assist in the licensing board exams. Innovative dental procedures/products and topics in dental specialty practices will also be covered. Students are expected to work independently on an 8-10 page research paper that serves as a culminating experience of the students’ program and college competencies. Written communication skills will be assessed as well as the student’s ability to use advanced search techniques. An oral presentation of the paper is required. Students will also prepare an extensive case study paper demonstrating proficiency in their clinical requirements on a patient receiving dental hygiene care during the semester as well as completion of competencies from the clinical portfolio. Process of Care IV, has been identified as the capstone course, in the Dental Hygiene curriculum. It is intended to be a culminating experience for soon to graduate students from Mount Wachusett Community College, reinforcing the College’s general education competency statements. Prerequisites: DHY 201, DHY 202, DHY 203, DHY 205. Corequisites: DHY 208, SOC 103.

DHY 208. Dental Ethics And Professional Issues. 2 Credits.
This course prepares the student for the philosophical consideration of dental hygiene practice. The student will be exposed to a variety of case studies which exemplify ethical, legal and professional concerns. The history of dental hygiene will also be discussed as well as current practice issues such as the public health dental hygienist, omnibus bills and dental practice ramifications. Additionally, the student is exposed to membership to their professional organization, the CEU process and the State Dental Practice Act. This course also explores the ethical and legal obligations of the Dental Hygiene professional. Content will include the major ethical theories applied in healthcare, the ethical code of the Dental Hygiene profession, and the resolution of ethical dilemma. The student will become familiar with the legal regulation of their profession including practice acts, licensure, risk management, and quality assurance. A component of the course experience is devoted to preparing for Dental Hygiene employment and includes current professional issues, preparation of a resume and cover letter, participating in employment interviews, creating a “personal portfolio” and selecting a career position. The business of Dental Hygiene will be discussed. Career satisfaction, mobility, legal issues and liability/disability insurance will also be examined. Students will work independently and collaboratively in small groups or teams to achieve shared learning outcome goals. The development of teamwork skills will assist the students in future employment. Students will also learn how to evaluate their group productivity. Students will be navigated toward the independent process of their licensing examinations. Prerequisites: DHY 201, DHY 202, DHY 203, DHY 205. Corequisites: DHY 207, SOC 103.

DHY 209. Community Oral Health. 4 Credits.
This course provides the student with the components of dental public health, community dentistry and the theory needed to design and implement sound patient education. This course will be grounded in theories of behavioral sciences and human growth and development. Students are introduced to the concepts associated with preventive community health care along with the skills needed to function within the community as an advocate of oral health and preventive care. Topics include; patient motivation, goal setting, communication skills, developing instructional objectives and sensitivity towards multi-cultural concerns. Public health issues are discussed along with epidemiology, research in education and statistical analysis. This course will examine the role of the dental hygienist as a health educator and as an oral health promoter responsible for working with patients to help them improve or maintain their oral health and wellness and also to understand the relationship between both. Additionally, it is the goal of the course to assist the student in examining their own knowledge, attitudes, values, and behaviors regarding oral health and to assist them in becoming effective health promoters to the dental hygiene patient. Clinical experiences expand to include the community, such as schools, health care agencies, veterans shelters, outreach centers and clinics. A three-hour weekly practicum experience is included. Prerequisites: DHY 201, DHY 202, DHY 203. Corequisites: DHY 207, DHY 208, SOC 103.

EARLY CHILDHOOD EDUCATION (ECE)

ECE 101. Introduction To Early Childhood Education. 3 Credits.
This course is an introduction to the field of early childhood. It studies the foundations, history, philosophy, ethics, the role of the teacher, and the changing needs of children in a variety of settings. This course will address licensing regulations, state and national standards and how they impact the social, emotional, and intellectual growth of the child. Emphasis will be placed on the Department of Early Care and Education (EEC) and the National Association for the Education of Young Children (NAEYC). A field observation is required. Students must undergo a Background Records Check. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ECE 102. Early Childhood Curriculum And Program Planning. 3 Credits.
This course surveys curriculum, instruction and the environment in an early childhood setting in order to maintain a comprehensive, multisensory, developmentally appropriate program. Students will gain an understanding of the importance of play, active exploration, diversity and inclusion. Emphasis will be placed on supporting the learning of children in all domains. The department of Early Care and Education (EEC) regulations and the National Association for the Education of Young Children (NAEYC) standards will all be highlighted. A field observation and a Background Records check are required ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite).

MOUNT WACHUSETT COMMUNITY COLLEGE 2020-21 CATALOG AND STUDENT HANDBOOK
ECE 103. Home, School, And Community Relations. 3 Credits.
This course examines the role of teachers and families in the development, care and education of young children. Special emphasis will be placed on understanding and engaging families with differing and/or challenging circumstances, and developing communication skills and strategies. Students will develop strategies to engage community resources and advocate for children, families and early childhood education. ECC and ECT students must earn a C or better in the course. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ECE 104. Infant And Toddler Development And Curriculum. 3 Credits.
The focus of this course is on the unique requirements of caring for infants and toddlers in group settings. Students will explore child growth and development, environments, curriculum and care-giving for children ages birth-3. Students will demonstrate knowledge of the Massachusetts Early Learning Guidelines for Infants and Toddlers. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite). Spring.

ECE 105. Child Care Administration. 3 Credits.
This course examines the organization, planning, and the administering of various types of early childhood programs. Emphasis will be placed on the responsibility of the director to provide a quality program through thoughtful planning, sound fiscal management skills, interpersonal relationships, while meeting State Standards and Guidelines and State licensing regulations. Topics included in the course will be funding, budgeting, evaluating, hiring, collecting fees, writing reports, and communication skills. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite). Fall.

ECE 106. Autism Spectrum Disorder. 3 Credits.
This course will examine the neurological underpinnings and behavioral characteristics of children with autism spectrum disorders. It will focus on an overview of child-centered, developmental and evidence-based interventions used in early care and education environments. Collaborating with families will be emphasized. Students will complete a field observation with a child experiencing autism spectrum disorder. Prerequisites: ENG 098, FYE 101, RDG 098. Spring.

ECE 107. Building Resilience in Children, Youth and Families. 3 Credits.
This course explores resilience, the ability to adapt well and recover after stress, adversity, trauma or tragedy. Emphasis will be on understanding trauma and resilience as well as exploring evidence-based strategies and skills to implement trauma-sensitive curriculum and behavioral practices. The focus will also be placed on using trauma-informed approaches to foster student, professional, and family relationships. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement). Fall.

ECE 114. Early Childhood Education Practicum I. 4 Credits.
Students will actively participate in an early childhood education setting. Under the supervision of a mentor teacher, the student will become more familiar with the role and responsibilities of the professional in early childhood education environments. Students must undergo a Background Records Check. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 102 or corequisite; PSY 108; enrollment in ECC or ECT programs.

ECE 124. Early Childhood Education Practicum II. 4 Credits.
Students will increase their involvement in an early childhood setting under the guidance of a mentor teacher. They will plan and implement developmentally appropriate curriculum while learning to apply best practice. Students will develop confidence and a sense of professionalism while reflecting on their teaching practice. Students must undergo a Background Records check. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 114; enrollment in ECE or ECT programs.

ECE 132. Applying Theories Of Curriculum. 3 Credits.
This course will explore and analyze current trends, theories, best practice standards of curriculum in early childhood education. Students will gain a more indepth understanding of inquiry-based, emergent and project-based teaching that reviews the value of play and the importance of inclusion and diversity. ECC and ECT students must earn a C or better in the course. Prerequisites: ECE 102, PSY 108.

ECE 134. Guiding Children's Behavior. 3 Credits.
This course helps students examine and interpret young children's behavior. Various theories of behavior management and functions of behavior, the role of positive behavioral supports in preparing young children to become competent and cooperative individuals with a strong social and emotional foundation will be emphasized. Developmentally appropriate methods of guiding individual and group needs will be shared as approaches to preventing disruptive behaviors in the classroom. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108 (or corequisite). Spring.

ECE 135. Health, Safety & Nutrition in Early Childhood Settings. 3 Credits.
Students will examine a holistic approach to children's wellness and the inter-relationships between health, safety and nutrition in early childhood settings. This course will explore the knowledge and skills early childhood educators need in order to promote the well-being of young children birth-8. Emphasis will be on the Department of Early Education and Care regulations. ECC and ECT students must earn a C or better in the course. Prerequisite: ECE 101. Alternate Years.
ECE 244. Children with Special Needs. 3 Credits.
This course explores ways of understanding the strengths and needs of children with differing abilities. Emphasis will be on combining information about specific disability categories with evidence based practices for instruction and behavioral support. This course covers evolving social/cultural dimensions of disability as well as legislation and policies supportive of children with special needs and their families. Students are required to observe special needs children in an educational setting. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 or PSY 110.

ECE 250. Observation and Assessment in Early Childhood. 3 Credits.
This course examines observation and assessment of children from birth through eight. The connection between effective observation and documentation to inform curriculum planning, program development and constructively sharing information will be emphasized. ECC and ECT students must earn a C or better in the course. Prerequisite: PSY 108.

EARTH SCIENCE (EAS)

EAS 110. Introduction to Environmental Science. 3 Credits.
This is an introductory course to the interdisciplinary field of environmental studies. Emphasis in this course will focus on the natural world and how it is influenced by human activities. Topics discussed will include: biodiversity, conservation, human populations, resources and sustainability, as well as global change. Prerequisite: ENG 098, MAT 092, RDG 098 or placement.

EAS 115. Paleontology: Evolution of Life. 4 Credits.
In this course, students will be introduced to basic biologic principles of ecology and natural selection that have influenced the evolution of modern species. Examination of fossil and geologic records will illustrate how climate changes and major evolutionary developments over the earth's history have culminated in the domains and kingdoms of life. Students will also study what role humans are playing in the evolution and extinction of species today. Lab work will complement topics discussed during lectures. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

EAS 120. Soil Science (formerly BIO 220). 4 Credits.
Soils are the anchors of biological systems. This is a study of the physical, chemical, and biological nature of the soil. This four-credit laboratory course will study the substrate of the ecosystem. Emphasis will be placed on the role of the soil in plant pathology. Lab sessions will be hands-on experiences revolving around and applying the topics listed in the lab section of the syllabus. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement. Spring.

EAS 125. Physical Geology of the Earth. 4 Credits.
This is an introductory course concerning the geology of both the earth's interior and surface. The geology of the earth's interior deals with its structure, the rock cycle, the formation and characteristic of igneous sedimentary and metamorphic rocks, as well as their mineral composition. The theory of plate tectonics will be used to discuss earthquakes, volcanoes, and mountain building. Surface geology encompasses soil and its formation, rivers, lakes, deserts, glaciers, topographic maps, and oceans. The process of physical and chemical weathering will be discussed in relation to these topics. Laboratory sessions will involve hands on experience with rocks, minerals, and measuring techniques used in geology, as well as online exercises. Prerequisites: ENG 098, FYE 101, RDG 098, MAT 092 or placement.

EAS 126. Weather and Climate. 4 Credits.
This is a 4-credit on-line laboratory science course. This course describes the basic structure of the atmosphere, and atmospheric processes. Students will develop an understanding of meteorological principles and concepts in order to understand the weather phenomena that affect our daily lives. Climate and the distinction between climate and weather will also be discussed. Prerequisite: ENG 098, MAT 092, RDG 098 or placement.

EAS 127. Introduction to Astronomy. 3 Credits.
This course is a general introduction to the field of astronomy. Students will study topics such as telescopes, the history of astronomy, tides and the moon, the planets of our solar system, properties of stars, our sun, solar formation and evolution, as well as galaxies. Students will be expected to make astronomical observations from their homes, as well as collect relevant data from the internet. Prerequisite: ENG 098, RDG 098, MAT 092 or placement.

EAS 130. Fundamentals of Geospatial Technologies. 3 Credits.
This course deals with the what and how of the various aspects of geospatial technologies. Topics to be covered include the theory and techniques of Geospatial Data and GPS, Geographic Information Systems, Remote Sensing, and Geospatial Applications. Students will gain hands-on experience with geospatial software such as Google Earth, ArcGIS, and others to establish a basic understanding and the skills needed to use these applications in the broad field of Natural Resources. Prerequisites: ENG 098, MAT 092, RDG 098 or placement. Fall.

ECONOMICS (ECO)
ECO 101. Macroeconomics. 3 Credits.
This course covers macroeconomic analysis of prevailing patterns of economic institutions, banking systems, monetary and fiscal policies, public debt, and supply and demand. This course may be used as a business or social science elective. Prerequisites: ENG 101 (or corequisite), MAT 092, or placement.

ECO 102. Microeconomics. 3 Credits.
This course covers microeconomic analysis of price and output determination under various conditions, including an examination of elasticity of demand, wage determination, labor unions, inequality of income, and international trade. This course may be used as a business or social science elective. Prerequisites: ENG 101 (or corequisite), MAT 092, or placement; ECO 101 strongly recommended.

EDUCATION (EDU)

EDU 101. Introduction To Education. 3 Credits.
This is a survey course in the pre-teacher program of study. Topics include an historical perspective, school structures, classroom issues, state curriculum frameworks, social issues, and diverse student needs. A 10-hour field experience and a Criminal Offender Record Information (CORI) check are required. LAEL students must get a C or better in the course. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

EDU 102. Literacy in Education. 3 Credits.
This course provides an opportunity for prospective educators to examine literacy and reading acquisition from early development through adolescence. Students will explore theories, strategies, and approaches to reading and literacy skills. Current approaches to curriculum design, instruction, and assessment for diverse learners will be examined. Students will practice making connections to State and National Standards with an emphasis on preparation for the MTEL Foundations of Reading MTEL (Massachusetts Test for Educator Licensure). A 16-hour pre-practicum is included in this course. Students must complete a Criminal Offender Record Information (CORI). Prerequisite: EDU 101. Spring.

ELECTROCARDIOGRAM (EKG)

EKG 101. EKG: Concepts And Practice. 3 Credits.
This course is an introduction to the cardiovascular system, electrocardiography (EKG) monitoring, basic rhythm interpretation, and the role of the EKG technician. There are two components of this course composed of classroom lecture and practical application. Students will participate in actual practice, learning how to do EKGs and other cardiovascular testing in a hospital setting. Criminal Offender Records Information/Sexual Offender Records Information (CORI/SORI) checks are necessary for students taking this class. Students must have proof of immunizations as well. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ELECTRONIC ENGINEERING TECHNOLOGY (EET)

EET 103. Introduction to Industrial Electricity. 4 Credits.
The course is an introduction to electricity in the manufacturing environment, with an emphasis on safety, troubleshooting and repairing automated mechanical systems. The general topics will include circuits, controls, motors, sensors, schematic diagrams, circuit diagrams, circuit analysis, test equipment and PLCs. Hands-on activities working with electrical training equipment, testing devices, a mechatronics system and circuit construction will be part of the classroom experience. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

ENERGY MANAGEMENT (EGM)

EGM 100. Engineering And Architectural Graphics. 3 Credits.
This course will introduce the student to the digital communication methods used in architecture, engineering and energy industry related fields. This includes explanation of the principles of orthographic projection, drafting conventions and dimensioning utilized in industry tools that facilitate communication of a variety of building performance related information. Topics may include existing and emerging energy modeling tools such as ECOTECT, ENERGY 10, REM Rate, eQUEST, Energy Pro or equivalents. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

EGM 104. Renewable Energy Sources. 4 Credits.
This course provides a comprehensive overview of renewable energies including solar energy, wind power, hydropower, fuel cells, biomass, and alternative transportation options. Students will learn the principles of solar home design, solar hot water, pool, and space heating and solar cooling for both new and existing construction. Students will learn how to assess the viability of a wind power, hydropower, or biomass system for a given site. Students will also learn about the impact of government regulations on the use of renewable energies. Students will analyze these renewable energy systems and will calculate savings fractions, backup energy...
needs, financing options, and economic analyses. They will investigate the potential of renewable energy technologies to help solve environmental and economic problems within society. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

EGM 105. Introduction to Energy Management Principles. 3 Credits.
This course introduces the principles of energy management and provides an overview of the energy industry. Students will learn about the history of energy production and costs, the dynamics of worldwide energy consumption and growth, the principle methods by which energy is used, and its environmental and financial impacts and consequences. Objectives and components of an effective energy management program are discussed. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

EGM 106. Energy Efficiency and Conservation Methods. 3 Credits.
Students will identify and explain all of the energy efficiency/conservation methods available for energy use reduction. Energy-consuming facilities, both domestic and commercial, will be analyzed by the students for energy efficiency opportunities. Students will calculate energy savings and environmental impacts for most energy efficiency methods in order to identify and assess energy conservation opportunities. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

EGM 110. Electrical Lighting And Motors. 3 Credits.
The course covers the components of lighting systems and motors. Students will learn about the history and advances in lamp technologies such as incandescent, arc, mercury, fluorescent, sodium, metal halide and light emitting diodes. Energy efficient fixtures will also be explored and the concept of night pollution mitigation and basic principles of lighting design that can maximize daylight and minimize energy usage. Prerequisites: EGM 105, EET 103 (or co-requisite).

EGM 115. Sustainability and the Built Environment. 4 Credits.
This course introduces students to the fundamental concepts of sustainability. The core emphasis is on understanding natural systems and their interaction with the built environment. Also explored will be the role of financial, social ecological, ethical, philosophical, political, cultural and psychological issues on the decision making process of facility and energy managers, engineers, architects and project managers. Through lectures and interactive dialogue with sustainability industry experts, the course builds literacy in sustainability as related to the built environment in local, regional and global spheres. In addition, the course encourages students to think from a variety of perspectives and to learn of the benefits of a collaborative approach to sustainability management. Through a combination of selected case studies, group discussion and analysis, students will explore the environmental influence of buildings and discover the economic benefits of reduced operating costs and research increased comfort of the occupants. Students will also be exposed to the concept of life cycle costing and integrated approach to the challenges inherent with sustainable building design, operations and maintenance. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement.

EGM 125. Energy Analysis And Auditing. 4 Credits.
The student will perform critical examinations of energy consuming facilities (residential and commercial) for the purpose of identifying energy conservation opportunities. In addition, the student will identify and recommend various energy conservation measures that reduce overall energy usage. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

EGM 130. Energy Control Strategies. 3 Credits.
This course pertains to all devices that are used to regulate energy use in buildings: from pneumatic and electric to electronic; from manual to automatic; from simple switches to microprocessors. An emphasis is placed on identifying and solving control/calibration problems and improving energy efficiency through redesign and energy control strategies. Prerequisites: EGM 115 or co-requisite.

EGM 140. Energy Project Costs And Funding Solutions. 3 Credits.
This course provides an overview of the costs associated with going green and available funding mechanisms for sustainability related building projects. Students will examine cost premiums for a variety of sustainability measures and budgeting strategies for pursuing energy efficiency in a world of diminishing revenues. Selected case studies include college dining halls, laboratories, student centers, athletic facilities and dormitories. Real world examples illustrate the advantages and disadvantages of various funding mechanisms including federal and state incentives, specialized loans, utility provider incentive programs and performance contracts. Prerequisite: EGM 105 or corequisite.

EGM 220. Heating And Cooling Systems. 4 Credits.
The first half of this course will summarize gas, fuel oil, and electric furnaces as well as heat pumps. Steam and hot water heating systems for residential and commercial applications will also be described along with energy conservation and efficiency options, potential savings for new and existing systems and environmental impacts of specific heating systems. The second half of the course will summarize residential and commercial cooling systems and include discussion of the impacts of temperature, humidity, air filtering and air movement on system performance. Prerequisites: EGM 105, EGM 106, EET 103 or co-requisite.

EGM 280. Sustainable Building Operations And Maintenance. 4 Credits.
This course provides an overview of establishing ongoing building operation and maintenance procedures and sustainable best practices that help to reduce the environmental impacts of buildings over their functional life cycles. Topics include exterior
maintenance programs, water and energy use, environmentally preferred products and practices for cleaning and alternations, sustainable purchasing policies, waste stream management and indoor air quality. Prerequisites: EGM 105, EGM 106, EGM 115.

**EGM 290. Energy Industry Internship. 3 Credits.**
This course provides relevant field and/or research experience that integrates theory and practice while providing opportunities to develop skills, explore career options and network with professionals and employers in the energy management related fields. Prerequisites: Students must be enrolled in the Energy Management Program and have a minimum of 10 credits in EGM courses.

**ENGLISH (ENG)**

**ENG 096. Writing Readiness. 3 Credits.**
This course is designed to develop the student's skills in writing, focusing upon vocabulary development, standard English grammar, spelling, and usage. Student strengths and weaknesses in these areas are determined through initial testing. Upon completion of this course, the student will possess spelling and vocabulary development skills, use grammatically correct sentence structures, punctuate sentences correctly, use appropriate word choice, and develop a basic comprehensive essay. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: None.

**ENG 097. Writing Seminar. 1-3 Credit.**
The purpose of this course is to build confidence through intensive writing practice. Developmental students will learn to recognize certain standard elements of effective writing: the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. In-class writing workshops, group work and discussion, supplemental tasks and one-on-one instruction will support students as they work to improve as writers. Prerequisites: Placement; corequisite with ENG 101 required.

**ENG 098. Fundamentals of Writing. 3 Credits.**
Fundamentals of Writing is designed to help the basic writer recognize certain standard elements of effective writing: mainly the existence of a strong central idea supported by organized, selected content, as well as proper usage of grammar and mechanics. Students will be introduced to the writing process and will produce at least five (5) essays of at least 2-4 pages each by the end of the semester. Other forms of writing, such as journals, free-writes, and active learning exercises emphasizing student success skills, may also be included. At the end of the course, students must write a successful final essay to move forward to ENG 101. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: ENG 096 or placement. Corequisite: FYE 101. Institutional credit only.

**ENG 101. College Writing I. 3 Credits.**
Students will develop college-level English writing skills with an emphasis on the writing process, an awareness of purpose and audience, and an understanding of grammar, punctuation, and sentence structure. Reading selections will foster improved writing skills and critical and analytical thinking. By semester's end, students will have produced at least four essays totaling 12-15 pages of original, polished prose, as well as additional writing in varied forms, such as journals, free-writes, peer review, reading responses, and rough drafts. Students are required to successfully complete the MWCC Library Research Skills MOOC and will write at least one paper that incorporates outside source material. Working with an instruction librarian on the research project is encouraged. Prerequisites: ENG 098, RDG 098, FYE 101, or placement.

**ENG 102. College Writing II. 3 Credits.**
Writing about literary works will improve student writing, revision, critical thinking, and reading skills. The readings will be selected from a range of texts including fiction, non-fiction, poetry and drama. Evaluation and analysis will be accomplished through a variety of writing assignments, for example, discussion board posts, in-class writing, journals, free-writing, essay exams, and rough drafts of formal essays. By semester's end, students will have produced several pieces of writing totaling 12-15 pages of original, polished prose. At least one of the essays will incorporate library research that is cited and documented appropriately. Prerequisite: ENG 101.

**ENG 106. Technical Writing. 3 Credits.**
This course focuses on the study of basic writing patterns likely to be of use to the report/technical writer: summary, definition, explanation of a process, description and analysis, classifying data, designing effective formats and supplements, researching information, writing and documenting the research report, proposal writing, and the use of visual aids. The development of an effective reportorial style is emphasized. Overall, the course is designed to improve the students' powers of creative observation and develop accurate and concise writing skills. Prerequisite: ENG 101.

**ENG 201. Honors English. 3 Credits.**
This course is designed to improve the student's ability to think through writing. A range of intellectual tasks appropriate to honor level students, including close textual analysis, interpretation and evaluation of literary works (both fiction and non-fiction), will form the core of the course. A research project is required. The topic of this course changes each year. Prerequisites: ENG 102, and permission of the Honors Program coordinator. Fall.
ENG 203. Twentieth Century American Authors. 3 Credits.
This course is designed to explore American views of war, race, alienation, assimilation, family, and social change in the 20th century. A variety of critical approaches will be applied to novels, short stories, poetry, plays, and essays. Some of the authors studied may include Hemingway, Faulkner, O’Connor, Vonnegut, Morrison, and Erdrich. Prerequisite: ENG 102 or permission of division dean.

ENG 205. Shakespeare. 3 Credits.
This course surveys plays from each of the periods of Shakespeare’s work: history, comedy, tragedy, and romance. Readings include The First Part of King Henry the Fourth and The Second Part of King Henry the Fourth from the histories; A Midsummer Night’s Dream from the comedies; Hamlet, Prince of Denmark from the tragedies, and The Tempest from the romances. The course emphasizes textual analysis with a focus on thematic issues raised by the plays. Prerequisite: ENG 102. Spring.

ENG 213. American Literature I. 3 Credits.
This course surveys significant American writings from 1620 through the 19th century covering the following eras: Puritans, Colonial/Revolution, Enlightenment/Romantic and Transcendentalist/Abolitionist. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Bradford, Rowlandson, Jefferson, Franklin, Emerson, Thoreau, Whitman, Fuller, Hawthorne, Melville, Douglass, Dickinson. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Spring.

ENG 214. American Literature II. 3 Credits.
This course surveys significant American writing from 1890 to the present covering the following: Realism, Modernism/Harlem Renaissance, Mid-20th Century, Post-Modernism/Multiculturalism/Contemporary. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments and will explore issues of diversity and the connection between literature and cultural contexts. Included are works by such authors as Twain, Chopin, Frost, Stevens, Moore, Hughes, O’Neill, Miller, Wilson, Ginsberg, Rich, LeGuin, Anzaldua. Written work totaling at least 12-15 pages will be assigned including essays with library research, reading responses, in-class essays, and rough drafts of formal essays. Prerequisite: ENG 102. Fall.

ENG 220. The Literature of Resistance. 3 Credits.
This course will explore expressions of resistance from a variety of cultures and historical periods. Students will read works that take a stand against or show characters taking a stand against political, social, or economic realities. Assigned readings may include works by Sophocles, Thomas Paine, Thomas Jefferson, Henry David Thoreau, Frederick Douglass, Toni Morrison, Marjane Satrapi, Julia Alvarez, and Tony Kushner, as well as Biblical texts and music. Prerequisite: ENG 102.

ENG 221. Women's Literature. 3 Credits.
This course will consider the essential issues raised in literature concerning the role and image of women in society. Included will be essays, short stories, and novels by authors such as Kate Chopin, Willa Cather, Virginia Woolf, and Toni Morrison. Prerequisite: ENG 102 or permission of division dean. Spring.

ENG 223. Contemporary Global Literature. 3 Credits.
Contemporary global literature includes twentieth- and twenty-first-century literatures, other than British and American, either written in English or read in translation. Readings represent a variety of cultures and belief systems and include world regional and diasporic literatures such as African, Asian, Latin American, Middle Eastern, etc. Emphasis is placed on interpreting literary texts in relation to their cultural, political, and historical contexts, as well as the conventions of literary movements and genres such as postcolonialism, magical realism, science fiction, etc. Through readings, discussions, and several written assignments, students will expand their awareness, understanding, sensitivity, and empathy in regard to differences between other cultures’ perspectives and their own. Close reading exercises and other scaffolded writing assignments will strengthen skills in close reading and literary analysis, culminating in a thesis-driven essay interpreting one or more works of literature. Additional assignments may include a group research presentation, an author interview writing project, and a final essay exam. By the end of the semester, students will have produced 12-15 pages of polished writing. Prerequisites: ENG 102 or permission of the Division Dean.

ENG 224. Mystery Fiction. 3 Credits.
This course studies the history and nature of the mystery story from the works of Poe to such present day masters as Agatha Christie and Tony Hillerman. Students will examine both the relationship of mystery fiction to the culture of its time and the changing role of the detective hero. Students will study the techniques of the mystery writer and the relationship between mystery fiction and “serious” literature. Works by such authors as Poe, Arthur Conan Doyle, Hammett, Chandler, Christie, and Hillerman are included. Prerequisite: ENG 102 or permission of division dean. Fall.
ENG 227. British Literature I. 3 Credits.
This course is a study of selected works by major writers in British literature through the Restoration and the 18th century. Emphasis is placed on a responsive and critical reading as well as on literary and historical background. Includes works by, but not limited to, Chaucer, Shakespeare, Milton, Pope, and Johnson. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 233. Science Fiction. 3 Credits.
As a literary genre, science fiction – like science – is continually changing and redefining itself, creating modern myths that show us our greatest hopes and our deepest fears about humanity, science, technology, and the future, as well as examining contemporary issues around race, class, gender, and sexuality. This course introduces students to a variety of science fiction texts – both classic and contemporary – and may include works by Mary Shelley, H.G. Wells, George Orwell, Ray Bradbury, Issac Asimov, Ursula Le Guin, Philip K. Dick, Octavia Butler, and Margaret Atwood. Prerequisite: ENG 102 or permission of division dean.

ENG 235. Children's Literature. 3 Credits.
Students in this course consider a variety of children's literature not only as literary and artistic expressions but also as historical and social artifacts. The course emphasizes illustrated books (picture storybooks) but also includes selections of chapter and young adult works. Students analyze and assess the literary merit and visual artistry of books from various genres, from diverse authors and illustrators. Those genres include fantasy, traditional literature (fairy tales), poetry, realistic and historical fiction, biography, and other non-fiction works. Students also explore issues related to education, censorship, multiculturalism, diversity, and the changing views of childhood. Course concepts are acquired primarily through reading and writing, with some discussion and lecture. Throughout the semester, students will present a variety of polished prose and written assessment of selected works in a variety of forms, including a scholarly research paper using library sources. Written work totaling at least 12-15 pages will be assigned. Additionally, other written analysis, reading responses, in-class essays, and rough drafts of formal essays may be required. Prerequisite: ENG 102 or permission of division dean.

ENG 236. Modern Drama. 3 Credits.
This course is a survey of international dramatic literature from 1879 to the present, encompassing such theatrical and literary movements as Realism, Expressionism, and Absurdism. Although the course includes some attention to production values (staging, performance, etc.), the emphasis is primarily on dramatic works as literary texts. Both primary and secondary texts will be assigned so that students become familiar with important works of criticism as well as the plays themselves. Readings include works by Ibsen, Chekhov, O'Neill, Williams, Beckett, Fugard, Hansberry, and Miller. Prerequisite: ENG 102 or permission of division dean. Fall.

ENG 237. Special Topics: Queer American Drama. 3 Credits.
Queer: once a derogatory word used against gay, lesbian, bisexual, and transgendered people has been reclaimed by social activists, writers, artists, educators, and scholars to describe all non-normative sexualities and identities, all that is considered by the dominant paradigms to be alien, strange, transgressive, odd in short, queer. This course will explore queer themes in American dramatic literature from mid-twentieth century to the present. Emphasis will be on how images of gays, lesbians, and other sexual minorities have changed over the past half-century beginning with plays that precede the gay liberation movement, continuing with work from the early years of the AIDS pandemic, and ending in the present day. Authors studied may include Lillian Hellman, Tennessee Williams, Mort Crowley, Jonathan Larson, David Henry Hwang, and Tony Kushner. Prerequisite: ENG 102 or permission of division dean. This course may be used by LAT students as a substitute for Modern Drama.

ENG 239. Creative Writing I. 3 Credits.
This course is an introduction to writing fiction, poetry, and drama. Students will experiment with a variety of literary styles and genres, learn to give and receive feedback in a workshop setting, and have the opportunity to read published authors. Lectures and workshops will introduce students to literary devices and techniques, such as dialogue, plot, setting, characterization, point of view, alliteration, allusion, metaphor. Prerequisite: ENG 101.

ENG 240. Creative Writing II. 3 Credits.
This course is an advanced writing workshop designed to give experienced writers the opportunity to hone their craft, while continuing to explore new styles and techniques. Workshops will present students with the opportunity to revise and refine their writing in preparation for publication in professional literary journals and magazines. Prerequisite: ENG 102, ENG 239.

ENG 241. Journalism I: Media Writing. 3 Credits.
This course helps students to become more concise writers by addressing the basic skills of journalism: observing, researching, reporting, interviewing, thinking, and writing with precision, clarity, and ethics. Assignments include basic reporting, local beat coverage, blogging, and multi-source stories. Students will be exposed to print and web writing, as well as some technology (including digital cameras and video). Student news stories will be submitted for the print and web editions of the MWCC student newspaper, The Mount Observer. Corequisite: ENG 101 or permission of division dean.

ENG 242. Journalism II: Advancing Newswriting. 3 Credits.
Continuation of ENG 241 Journalism I: News Reporting and Writing. This course is designed to further students' mastery of such journalistic techniques as idea development, news gathering, newsroom operation, editing, and layout. Emphasis will also be placed
on writing for print and web editions of the student newspaper, mentoring students in the Journalism I course, editing articles, checking sources and facts, and putting together the monthly editions of both print and web. Students will be exposed to some technology (digital cameras, video). Prerequisite: ENG 241 or permission of division dean.

**ENG 245. Film Appreciation. 3 Credits.**
Through selected reading in film and literary theory and the screening of high quality films, the class examines and develops a greater awareness of basic film techniques, practices, and aesthetics. Emphasis is placed upon the relationship between film and literature (i.e., narrative structure, figurative language, problems of adaptation, criticism, genre) and film as a unique twentieth-century art form that incorporates a number of other media and arts. Prerequisite: ENG 102.

**ENG 251. Introduction To Public Relations. 3 Credits.**
This course covers all forms of writing for public relations, including press releases, public service announcements, features, newsletters, and presentations. This course emphasizes the strategy of crafting and delivering a PR message with final culmination in designing a public relations strategy for an existing organization in the community. Corequisite: ENG 101. Fall.

**ENG 252. Shakespeare and Star Wars: A Study of Tragedy through Drama and Film. 3 Credits.**
In this course, students will draw comparisons between the worlds of Shakespeare and Star Wars through an in-depth, critical analysis of Shakespeare’s tragic heroes and the journey of Anakin Skywalker as tragic hero. Students will read Julius Caesar, Othello, and Macbeth and also be required to read supplemental material including, but not limited to, script excerpts, biblical readings, and Elizabethan historical information. Finally, students will watch the second installment of the Star Wars trilogy, with a focus on The Revenge of the Sith. Questions of government and leadership, power and lust, jealousy and fatal attraction, friendship, religion, forbidden love, good vs. evil, stoicism, and temptation will be some of the topics discussed and expanded upon through various writing assignments, projects, and research. Prerequisite: ENG 102 or permission of division dean.

**ENG 259. Literary Masterpieces I. 3 Credits.**
This course is a study of representative literary masterpieces of Eastern and Western civilization for moral, philosophical, social, and psychological insights into the nature of modern man. Readings are taken from such sources as Aristotle, Greek drama, Plato, Milton, Chaucer, Machiavelli, Dante, and Shakespeare. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Fall.

**ENG 260. Literary Masterpieces II. 3 Credits.**
This course is a continuation of ENG 259 Literary Masterpieces I, with selections from Renaissance to contemporary culture. This course emphasizes western heroes and anti-heroes from the works of such authors as Voltaire, Tolstoy, Dostoevsky, Flaubert, Camus, Pope, and Mallarme. The course complements courses in western civilization, art, and music history. Prerequisite: ENG 102 or permission of division dean. Spring.

**ENG 261. The Short Story. 3 Credits.**
This course traces the development of the short story as a distinct literary genre from its origins in the early 19th century to the present. Emphasis is on close reading and analysis of texts by international writers. The course covers the major literary movements of the 19th and 20th centuries: Romanticism, Realism, Naturalism, Modernism, and Postmodernism. Readings include stories by Poe, de Maupassant, Chopin, Hemingway, Kafka, Joyce, O’Connor, and Carver. Prerequisite: ENG 102 or permission of division dean. Spring.

**ENG 283. Journalism Practicum. 3 Credits.**
This course is designed to provide students with opportunities for the enhancement of their course work in Journalism through external internships/shadowing at local media and more in-depth leadership as the Editor-in-Chief of the student newspaper. Prerequisites: ENG 242.

**ENG 289. American Romanticism. 3 Credits.**
This course is a study of significant American writing of the 19th century, a time of exploration and experimentation, which scholars have referred to as The American Renaissance. The course emphasizes textual analysis and the examination of the relationship of representative works to historical, social, and intellectual developments. Included are works by such authors as Emerson, Thoreau, Whitman, Fuller, Hawthorne, Dickinson, Douglass, Stowe & Melville. Prerequisite: ENG 102 or permission of instructor/division dean. Fall.

**ENG 290. Advanced Writing and Research. 3 Credits.**
In this course students demonstrate their ability to conduct academic writing and research by refining skills introduced in earlier composition courses and practiced elsewhere in their degree program. Students will engage with scholarship from a variety of disciplines, draft and revise essays in a number of academic genres (including summary and response, close analysis, and argument), conduct intensive library research for a substantial documented essay accompanied by an instructional librarian, and prepare a self-reflective narrative to accompany a completed portfolio of written work. Prerequisite: ENG 101, ENG 102; completion of at least 45 college-level credits, including completion of or co-enrollment in at least one 200-level ENG course.
ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 093. Advanced Beginning Integrated English for Speakers of Other Languages. 9 Credits.
ESL 093 will engage students with academic content with clear connections between reading, writing, and conversation. Students will comprehend a variety of realistic academic texts. Step-by-step reading and writing instruction with integrated grammar and vocabulary will provide preparation for future ESL and other academic classes. Critical thinking tasks will develop students’ ability to evaluate, analyze, and synthesize information from a range of sources. ESL 093 will prepare students to advance to the more advanced ESL classes and future college academic credit classes. Prerequisite: High school diploma/GED and ESL placement.

ESL 096. Intermediate ESL for Academic Success. 3 Credits.
ESL 096 is the first course in a four part series of required ESL courses that support the completion of the Certificate in a designated content area for the Dual-Language (English-Spanish) Immersion Program. ESL 096 will engage students with authentic academic content, fostering clear connections between reading, writing, listening, and public speaking skills at the intermediate level of English language learning. Students will work with a variety of realistic academic texts, in conjunction with their academic subject courses, including content related to their field of study. Step-by-step reading and writing instruction with integrated grammar and vocabulary at the intermediate level will provide the necessary preparation for future ESL courses and academic content courses. Critical thinking and writing assignments will serve to develop students’ ability to evaluate, analyze, and synthesize information in English from a range of sources. ESL 096 will prepare students to advance to the next ESL course level in the series, in conjunction with the academic content classes needed for the completion of the Certificate. Prerequisite: High school diploma/GED; ELG 096, ELW 096 or placement.

ESL 097. High Intermediate ESL for Academic Success. 3 Credits.
ESL 097 is the second course in a four part series of required ESL courses that support the completion of the Certificate in a designated content area for the Dual-Language (English-Spanish) Immersion Program. ESL 097 will engage students with authentic academic content, fostering clear connections between reading, writing, listening, and public speaking skills at the high intermediate level of English language learning. Students will work with a variety of realistic academic texts, in conjunction with their academic subject courses, including content related to their field of study. Step-by-step reading and writing instruction with integrated grammar and vocabulary at the high intermediate level will provide the necessary preparation for the last two ESL courses and academic content courses. Critical thinking and writing assignments will serve to develop students’ ability to evaluate, analyze, and synthesize information in English from a range of sources. ESL 097 will prepare students to advance to the third ESL course in the series in conjunction with the academic content classes needed for the completion of the Certificate. Prerequisite: ESL 096.

ESL 098. Advanced ESL for Academic Success. 3 Credits.
ESL 098 is the third course in a four part series of required ESL courses that support the completion of the Certificate in a designated content area for the Dual-Language (English-Spanish) Immersion Program. ESL 098 will engage students with authentic academic content, fostering clear connections between reading, writing, listening, and public speaking skills at the advanced level of English language learning. Students will work with a variety of realistic academic texts, in conjunction with their academic subject courses, including content related to their field of study. Step-by-step reading and writing instruction with integrated grammar and vocabulary at the advanced level will provide the necessary preparation for the last ESL course and academic content courses. Critical thinking and writing assignments will serve to develop students’ ability to evaluate, analyze, and synthesize information in English from a range of sources. ESL 098 will prepare students to advance to the fourth ESL course in the series in conjunction with the academic content classes needed for the completion of the Certificate. Prerequisite: ESL 097.

ESL 099. Transitional ESL for Academic Success in College Writing. 3 Credits.
ESL 099 is the final course in a four-part series of required ESL courses that support the completion of the Certificate in a designated content area for the Dual-Language (English-Spanish) Immersion Program. ESL 099 is a co-requisite of ENG 101- College Writing. Students will work with authentic academic content, fostering clear connections between reading, writing, listening and public speaking skills at the advanced level of English language learning, with the main focus on writing. Students will use realistic academic texts to write college essays, in conjunction with their academic subject courses and ENG 101. Writing instruction with integrated grammar and vocabulary at the advanced level of English will provide the necessary preparation for college level writing. Critical thinking and writing assignments will serve to develop students’ ability to research, evaluate, analyze, and synthesize information in the English language for their field of study and career major. ESL 099 will help to prepare students for the completion of their Certificate and enable them to transition to future college level courses, in pursuit of an Associate’s degree and beyond. Prerequisite: ESL 098; ENG 101 as corequisite.

ESL-CONVERSATION (ELC)

ELC 096. Intermediate Conversation. 3 Credits.
This course is designed for students who have reached the advanced beginning level of English grammar skills in aural/oral communication. The course uses student-centered activities to reinforce English grammatical structures and patterns. Students develop
the communication, organization and pronunciation skills necessary for effective academic presentations. Dialogues, role plays, debates and oral presentations actively engage students in meaningful conversations. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: High school diploma/GED and ESL placement.

ELC 098. Advanced Conversation. 3 Credits.
This course is designed for the non-native speakers of English who have achieved intermediate level proficiency in English grammar structures in aural/oral communication. The course includes mastery in listening and speaking skills including pronunciation, intonation, correct grouping of vocabulary items in phrases, academic vocabulary development and an introduction to note-taking skills. Students will develop their speaking skills including asking for clarification, requesting and receiving factual information, expressing agreement and disagreement and adjusting to different levels of formality. Students will research a topic of their choice and present their findings using appropriate technology. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: High school diploma/GED and ESL placement.

ESL-GRAMMAR (ELG)

ELG 096. Intermediate Grammar. 3 Credits.
This intermediate level grammar course is the third course of a four course series. This course is for academically-oriented, non-native speakers of English who have successfully completed the advanced beginning level course (ELG 093) or who have been tested and placed into the intermediate level. The course emphasizes the form, function and use of the present perfect and past perfect tenses, modal auxiliaries, passive voice, gerunds, infinitives and prepositions through extensive language practice. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: High school diploma/GED and ESL placement.

ELG 098. Advanced Grammar. 3 Credits.
This advanced grammar course is the final course in a four course series designed to prepare non-native and bilingual students to matriculate into college level courses. This course is intended for students who have mastered an intermediate level of English. The course offers a comprehensive review of structures such as perfect tenses, passive voice, compound and complex sentences including adjective, adverb and noun clauses. Students practice the verb tenses through integrated exercises. The course emphasizes advanced grammar concepts including form, function and the usage of future perfect tenses, noun clauses, modal perfects, conditional and unreal conditionals and subjunctives through extensive language practice. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: ELG 096 or high school diploma/GED and ESL placement.

ESL-READING (ELR)

ELR 096. Intermediate Reading. 3 Credits.
This course is the third course of a four course series for non-native speakers of English. It includes the further development of vocabulary, reading fluency and comprehension with an emphasis on academic vocabulary, expansion of reading skills including skimming, scanning, making inferences, outlining the ideas in writing summaries and an introduction to recognizing patterns of organization. In addition, students will develop skills for previewing, predicting and identifying facts and opinions. Students will learn to use English dictionaries, analyze texts and use conjunctions to create relationships between ideas. Reading comprehension proficiency will be achieved through reading high interest materials, textbooks and resources such as websites and newspapers. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: ELR 096 or high school diploma/GED and ESL placement.

ELR 098. Advanced Reading. 3 Credits.
This course is the final course in the reading series to prepare non-native speakers of English for college-level courses. It includes further acquisition of academic vocabulary using context and textual clues, identifying main ideas and supporting details, skimming for main ideas, scanning for specific information, making inferences, previewing and predicting, reading critically, distinguishing facts from opinions and interpreting graphs and charts. Students will further develop the reading skills to recognize purpose, perspective, mood and tone and write about readings by summarizing, paraphrasing, quoting and responding. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: ELR 096 or high school diploma/GED and ESL placement.

ESL-WRITING (ELW)
ELW 096. Intermediate Writing. 3 Credits.
This is an intermediate writing course in which students more fully develop their ability to write essays. The course focuses on the skills needed to write grammatically correct simple, compound and complex sentences. Students will brainstorm, organize, write, revise and edit short, guided essays using topic sentences with supporting details, organized paragraphs and clear introductions and conclusions. Students will continue learning and correctly using punctuation rules and developing proofreading and copyediting skills. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: High school diploma/GED and ESL placement.

ELW 098. Advanced Writing. 3 Credits.
This is an advanced writing course designed to give intensive academic writing practice for non-native and bilingual students. Students will develop the skills to write unified and coherent paragraphs. In addition, students will develop skills to write cohesive essays with thesis statements, introductions and conclusions using a variety of rhetorical styles, conjunctions and transitions at both the sentence and paragraph levels. They will practice a variety of strategies – using specific details, vivid vocabulary, varied sentence structures, clear organization and concise wording – for making their writing more compelling. Throughout the semester, students will also develop the skills necessary for college-level courses such as note taking, paraphrasing and summarizing. Students will become familiar with word processing, e-tutoring, academic databases and Blackboard. A grade of C or better is required to pass this course. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. Prerequisites: ELW 096 or high school diploma/GED and ESL placement.

EXECUTIVE OFFICE ADMIN (EOA)

EOA 106. Keyboarding. 3 Credits.
Students are taught correct keyboarding techniques while developing speed and accuracy using a keyboarding software program. These techniques are then used to prepare business and personal correspondence with the use of Microsoft Word. This course is designed for students who have few or no computer skills, for students who want to learn how to type, or for students who are looking to improve their typing skills. Prerequisites: FYE 101, RDG 098, or placement.

EOA 107. Word Processing Applications. 3 Credits.
The major topics covered in this class are creating, editing, and formatting of a document and working with multiple documents. A professional paper, a newsletter, a basic form, and tables are designed. A mail merge is developed. Password protection of a document is introduced. The course material helps prepare the student to take a component of the Microsoft Office Specialist Certification. This course is helpful to the student who has minimal or no experience using a computer. Prerequisites: FYE 101, RDG 098, ENG 098 or placement.

EOA 110. Administrative Assistant Office Procedures. 3 Credits.
The course teaches the students concepts and procedures to develop the skills they will need as an administrative assistant. Students learn general office procedures, communicating techniques, interpersonal skills, use of technology, records management, and scheduling of appointments. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

EOA 180. Externship Experience for the Administrative Assistant. 3 Credits.
This externship experience will allow students to apply admin skills, perform administrative procedures and develop professional attitudes for interacting with professionals in an administrative roll. One hundred and twenty externship hours is required. Prerequisite: Recommendation of the faculty advisor and the Director of Community Learning; QPA of 2.5 or better and a minimum of 12 college level earned credits. Spring.

EXERCISE AND SPORT SCIENCE (EXS)

EXS 102. Principles Of Anatomy And Kinesiology. 3 Credits.
This course is intended to provide the student with a detailed overview of musculoskeletal structure and function and its application to a more complex analysis of human movement and skill. Introduction of concepts concerning tissue and organ system organization, basic biomechanics, and the nervous system and its relationship to the musculoskeletal systems will be studied. Identification and detailed palpation of the bones and muscles of the human skeleton will be correlated with joint and muscle function. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

EXS 103. Strength and Conditioning. 3 Credits.
Through participation in lecture and lab, students will develop the skills and understanding of muscle physiology and its relationship to resistance training. The course will provide students with an understanding of required adaptations for proper training, correct form and technique. Prerequisites or Corequisites: BIO 203 or EXS 102 or PTA 104. Spring.
**EXS 201. Exercise Science And Nutrition. 4 Credits.**
This course will explore the scientific dimensions of fitness and nutrition. The course will be aimed at the function of exercise on the skeletal muscles, the organs, and the systems of the body; the relationship of activity and fitness to health; as well as an overview of nutrition, energy balance, and weight control as it affects health. Prerequisites: BIO 152 or BIO 199 (or co-requisite). Fall.

**EXS 203. Exercise Testing And Program Design. 4 Credits.**
This course introduces students to testing protocols for individuals and groups. Students will be instructed in various fitness programs for flexibility, strength, and cardiovascular exercises. Students will also learn weight management techniques, as well as safety aspects of fitness exercises. The principles of adherence and motivation as well as communication and teaching techniques will be discussed and evaluated. Students will develop an understanding of legal issues and business structures, as well as professional responsibility. Prerequisites: EXS 102 or PTA 104, EXS 201. Spring.

**EXS 210. Externship. 2 Credits.**
This externship experience involves direct observation and interaction at selected facilities. Placements include fitness centers, wellness centers, physical therapy clinics and rehabilitation centers. Students obtain a basic knowledge and understanding of the practical aspects of the fitness industry through participation. One seminar hour and several hours of field experience per week are required. Prerequisites: EXS 102 and EXS 201. Spring.

**FINANCE (FIN)**

**FIN 250. Basic Finance. 3 Credits.**
From a business perspective, covers organizational and administrative tools of finance including budgets, financial analysis, financial planning, the stock market and the time value of money. Also covers short, intermediate and long term asset financing requirements of a business enterprise. Prerequisite: ACC 102.

**FIRE SCIENCE TECHNOLOGY (FST)**

**FST 151. Building Construction. 3 Credits.**
This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Prerequisite: FST 155 or permission of division dean.

**FST 152. Strategy and Tactics. 3 Credits.**
This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Prerequisite: FST 159.

**FST 153. Fire Protection Systems. 3 Credits.**
This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**FST 154. Hazardous Materials Chemistry. 3 Credits.**
This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**FST 155. Principles Emergency Services. 3 Credits.**
This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**FST 157. Fire Prevention. 3 Credits.**
This course provides fundamental knowledge relating to the field of fire prevention. Topics include history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**FST 158. Principles of Firefighter Safety and Survival. 3 Credits.**
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.
FST 159. Fire Behavior and Combustion. 3 Credits.
This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 160. Fire and Emergency Services Administration. 3 Credits.
This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. Prerequisite: FST 155.

FST 161. Legal Aspects of Emergency Services. 3 Credits.
The course will address the Federal, State, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

FST 162. Fire Hydraulics and Water Supply. 3 Credits.
This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Prerequisites: FST 155, MAT 092, or placement.

FST 163. Fire Investigation I. 3 Credits.
This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. Prerequisites: FST 151, FST 155, FST 159, or permission of division dean.

FIRST YEAR EXPERIENCE (FYE)

FYE 101. First Year Seminar. 3 Credits.
First Year Seminar teaches students how to learn. In this interactive college-level course, students will receive critical information to ease the challenging process of transitioning to college. The course covers three phases of study. First, students will develop mastery of a variety of topics critical to student success: time management, goal setting, learning styles, campus resources and policies, motivation, reading strategies, and test taking. Next, students will continue to develop their understanding of self as a college student, by honing their critical thinking skills in the context of course lessons on motivation, leadership, co-curricular involvement, and current events. Finally, students will have completed at least two graded writing assignments, read at least one college textbook and multiple supplemental readings on college success strategies, and will additionally complete an end-of-course evaluation (final portfolio, project, or exam) which demonstrates their understanding of course concepts. All students will have had the opportunity to access Blackboard for at least one course assignment. Prerequisites: RDG 096, ENG 096 or placement. Degree seeking students who test into either RDG 098 or ENG 098 are required to complete FYE 101 as a co-requisite or prerequisite.

FRENCH (FRE)

FRE 107. French I. 3 Credits.
A course for the student with little or no previous knowledge of French who wishes to achieve a sound basis for further work in language. The course objective is to ensure that the student will attain high levels of accuracy and will reach a modest level of fluency. Three lecture hours and one laboratory hour per week. Prerequisite: None.

FRE 108. Beginning French II. 3 Credits.
This course is a continuation of the work started in FRE 107 French I. Students will improve their proficiency in the language through a variety of listening comprehension and listening activities. A variety of readings, grammar exercises and vocabulary will be covered to increase understanding of the French language and culture. The course will be conducted in French. Prerequisite: FRE 107 or permission of division dean.

GEOGRAPHY (GEO)

GEO 129. World And Cultural Geography. 3 Credits.
Surveying world economic, political, social, and cultural factors and the impact and significance they have on people, geographical space, national and world affairs, this introductory course stresses the basic principles of human geography. A global, geographical perspective is given to such topics as population and settlement patterns, health and nutrition, technologies, livelihoods, international politics, religions, languages, and art forms. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

GRAPHIC & INTERACTIVE DESIGN (GID)

GID 101. Design Theory (Formerly CGD 101). 3 Credits.
This course is an introduction to the Graphic Design field. It is a combination of lecture, group critique, computer demonstration, and hands-on applications. Through a series of exercises, special emphasis is placed on the understanding of the fundamentals of
design and typography as they are applied to the development of effective visual communication for both print and web applications. Through research and analysis, students will become familiar with a history of Graphic Design and contemporary designs from leading members of the wider Graphic Design community. Students will create a comprehensive final project consisting of both print- and web-designed projects within a campaign for a Public Service Announcement (PSA). This course also addresses audience definition, research and analysis, concept development, and the production of thumbnail sketches, rough drafts, and the preparation of final comprehensive layouts. Prerequisites: ENG 098, FYE 101, RDG 098, or placement; GID 104 (formerly CGD 104) (or corequisite). Fall for GID students. Spring for non-majors.

**GID 104. Digital Imaging (Photoshop) (Formerly CGD 104). 3 Credits.**
This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Students will learn the basics of designing electronic artwork with special emphasis on understanding the tools and techniques of Adobe Photoshop. Students will be able to transform digital images into new pieces of art through the use of non-destructive editing techniques: smart objects, masks, adjustment layers, smart filters, selections and channels. In addition, students will employ creative and effective use of the elements and principles of design and typography in various projects. Students will create, optimize, and save graphics for the web. Basic computer skills are required: Ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**GID 109. Introduction To Web Design (Formerly CGD 240). 3 Credits.**
This course is the first in a three-part series teaching front-end web design and development. The course begins with an overview of the Internet and the World Wide Web, followed by an introduction to the three layers of web development, structure (HTML), style (CSS) and behavior (JavaScript). Students will hand code a variety of web page assignments to master the fundamental techniques presented in this course. Emphasis throughout the course will include the effective use of project planning techniques, the principles of design, user experience (UX) design, writing and typography for the web, and validation and browser testing. Additional topics include file management, copyright and the use of images on the Web, research, and information literacy. Basic computer skills are required: ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**GID 113. Interactive Web Design (formerly CGD 241). 4 Credits.**
The second course in a three-part series teaching front-end web design and development, this course picks up where GID 109 ends. We begin with a brief recap of previous skills, followed by a study of additional layouts including responsive web design layouts that adapt to the size of the device being used. Additional techniques include CSS3, HTML5, flexible images, media queries, and advanced navigation bars. An overview of Mobile Web Design will be included. Students continue to increase their knowledge of JavaScript and jQuery to add interactivity to their web pages. A variety of web page assignments will be hand coded to master the fundamental techniques presented in this course. Emphasis continues on the effective use of project planning techniques, the principles of design, user experience (UX) design, writing and typography for the web, validation and browser testing. One of two required creative website projects will focus in-depth on working with a client. Prerequisites: GID 109 or permission of the Division Dean; GID 101, GID 104 and GID 117 are recommended as pre- or corequisites. Spring.

**GID 115. Digital Illustration (Illustrator) (Formerly CGD 105). 3 Credits.**
This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Students will learn the basic elements of vector graphics—paths, strokes and fills—and how to use Adobe Illustrator’s powerful drawing tools. The course also explores how to use color, build complex shapes from simple paths, and produce a detailed trace from a bitmap image, sketch or line art. Special emphasis is on understanding the Bezier pen tool, as well as learning specialized techniques for creating line-art, complex color illustrations, and two and three-dimensional drawings. Students will illustrate and design two creative projects that are a culmination of the skills and techniques learned in the class. Basic computer skills are required: ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**GID 117. Typography In Visual Communication (Indesign) (Formerly CGD 235). 3 Credits.**
Typography is what sets graphic designers apart from other artists. They understand that letterform can communicate the mood and meaning in the written word. It is for this reason that this course will focus on a solid understanding of typography in visual communications with the use of Adobe InDesign. Students will explore the anatomy of the letterform through various exercises while learning how to classify typefaces and how to use them effectively and creatively. They will explore the characteristics of typefaces to develop a basic proficiency in identifying the distinctive features of each. Students will acquire a solid foundation in the basics of typography and will as a result make better decisions about typographic usage. Details of text layout and information hierarchy will be emphasized. Integration of other CSS programs, to create professional appealing designs for both print and web projects, is covered. Students will learn how to use typography on the page as an integrated graphic element to produce typographic solutions effectively.
and creatively. Saving InDesign documents for web access will be covered as well. Online as well as print assignments using type predominantly will be required. Students will design two creative projects using Adobe InDesign. Prerequisites: ENG 098, FYE 101, RDG 098, (or placement). Spring.

**GID 202. Publication Design (InDesign) (Formerly CGD 102). 3 Credits.**
This project-based course is a continuation of GID 101 Design Theory and GID 117 Typography in Visual Communication and focuses on an advanced understanding of graphic design principles, theory and practices, concept development and the production of portfolio-ready, multi-paged layouts. Emphasis is on understanding complex layout formats and composition while utilizing Adobe InDesign, Photoshop, Illustrator and Acrobat PDF. Through various exercises, students will explore grids, typography, and advanced layout techniques such as master pages and style sheets. Students will create two sophisticated, multi-paged publication design projects. Prerequisites: GID 101, GID 104, GID 115, GID 117 or permission of the Division Dean. Fall.

**GID 204. Advanced Digital Imaging (Advanced Photoshop) (Formerly CGD 204). 3 Credits.**
This course covers extensive and advanced use of Adobe Photoshop, with a supporting role for Adobe Bridge. Students will work with photographic images using tools from all of these Adobe packages for more advanced image creation and editing techniques. Bridge will be used to manage files and integrate all of the Adobe program files to place elements into their projects. Extensive work with compositing files and working with smart objects, Camera Raw, and smart filters to non-destructively edit images will required. Advanced operation of tools and palettes, file formats, optimizing images for the Web and other media, retouching files, masks, paths, channels, color adjustment for printing, animation and video for the Web will be covered as well. Students will be able to transform digital images into new pieces of art through the use of non-destructive editing techniques: masks, adjustment layers, selections and channels. In addition, students will employ creative and effective use of the elements and principles of design and typography in various projects. Students will research, plan, and design creative projects for both print and Web. This project-based course will emphasize design theory and practices, concept development, and the production of portfolio-ready pieces. Prerequisites: GID 101, GID 104 or permission of the Division Dean. Fall.

**GID 209. Advanced Web Design (Formerly CGD 244). 3 Credits.**
This is a culminating course in the three-part series teaching front-end web design and development. This course picks up where GID 113 ends and will require students to effectively employ the skills and techniques they've learned in all of their previous GID web design classes. In this class, students will concentrate on building advanced website wireframes and layouts, creating an HTML email campaign while learning to use popular online HTML email campaign solutions, creating a WordPress website, and using HTML frameworks. We begin with examining a variety of advanced website layouts including online stores, magazine and news style layouts, and parallax style layouts. For the first Creative Project, students will explore digital marketing through the design, building, and sending of a multi-piece promotional HTML email campaign using one of the popular online email platform options. Creative Project One will be followed by an introduction to building WordPress sites for clients who wish to have a designer create the initial site and then want to maintain it on their own. Students will then build a WordPress website for their second Creative Project. Additional topics will include CSS3, HTML5 and building separate mobile websites. Prerequisite: GID 113. Fall.

**GID 216. Motion Graphics for Interactive Media. 3 Credits.**
This course is an introduction to motion graphics and animation for designers. Students will explore the relationship between graphic design and time-based, interactive media while examining contemporary and historical examples of motion graphics and animation. This course will focus on the use of current industry standard software to produce a range of motion graphics projects for the Web and other interfaces. Students will be introduced to strategies of visual communication through kinetic elements: form, speed, rhythm, orientation, color, texture and quality of motion. Projects will cover basic animation principles, design and composition, typography, timing, storyboarding, and incorporating sound and music. Through varying creative projects, students will gain a solid foundation of motion graphics and animation techniques that will support their creativity and enhance their digital skill-set. Prerequisites: GID 104 or GID 177 or permission of the Division Dean. ENG 101 recommended as a pre or co-requisite.

**GID 299. Portfolio Preparation and Production (Formerly CGD 210). 4 Credits.**
This 4-credit course is the final capstone class in the GID program. Students will rework and refine their past projects for their portfolio, experience a “real world” client/designer professional relationship, explore production issues of print and web designs, write a resume, and develop a personal visual identity for self promotion. Students are expected to be proficient in page layout, digital imaging, digital illustration and web design as they move their strongest pieces forward, strengthening their portfolio as they advance their visual communication skills. The teacher will act as a facilitator for group critiques, organize guest speakers and field trips, and provide service learning supervision. Service Learning provides students with an opportunity to enhance their design skills, in collaboration with a community-based nonprofit organization, as they provide creative visual solutions for their client. This course will prepare the student to enter the field of graphic and interactive design with both a printed and on-line portfolio of their best work, a comprehensive understanding of a perspective employer’s expectations, and how to meet those expectations. As well, throughout the course students will gain a solid working knowledge of prepress and production techniques as it applies to their personal and client-
based projects. Prerequisites: GID 101, GID 104, GID 109, GID 113, GID 115, GID 117, GID 202, GID 204, GID 209 or permission of the Division Dean.

HEALTH CARE (HCC)

HCC 111. Emergency Medical Technician I (Evening Only). 4 Credits.
This is the basic course for Emergency Medical Technician/Ambulance that follows the guidelines outlined by the United States Department of Health Education and Welfare in conjunction with the National Traffic Safety Administration, Department of Transportation. This is a lecture, discussion, demonstration, and practical application of the knowledge and skill necessary to care for individuals who have life-threatening emergencies and injuries. This is the first half of the requirement for certification. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Evening only.

HCC 112. Emergency Medical Technician II (Evening Only). 4 Credits.
This is a continuation of EMT Emergency Medical Technician I, dealing with the care of individuals who have common medical emergencies, childbirth, problems of children as patients, lifting and moving patients, environmental emergencies, and extrication from automobiles. This course is the second half of the requirement for certification. Prerequisite: HCC 111 with a C grade or higher. Evening only.

HCC 201. Paramedicine I. 3 Credits.
This course is the first course designed for Emergency Medical Technicians (EMT) with at least one year as an EMT Basic or Advanced to obtain certification/licensure as a paramedic. Course concepts which will be taught to the National EMS Education Standards for paramedics will include: the history of EMS systems and development, workforce safety and wellness, EMS/EMD communications, life span development, medical/legal, documentation, therapeutic communications and public health. After completion of this course, the student will understand the origins and present-day structure of emergency medical care delivery systems. The paramedic’s roles and responsibilities and his or her relationship to the emergency medical services (EMS) system are explained, as well as the paramedic’s role in the quality-improvement process. Other EMS provider levels are described. The foundations necessary for being a competent, effective, caring, and ethical paramedic are presented. The interrelationships of the National Highway Traffic Safety Administration’s components of the EMS system are outlined, as well as the paramedic’s impact on research, data collection, and evidence-based decision making. The paramedic’s responsibilities as a student and a practitioner are also studied. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098 and FYE 101 or placement; HCC 111, HCC 112 or current State or National EMT Certification from another Accredited EMT Training Program and 1 year of experience/or 75 patient contacts; BIO 152, HCC 202, HCC 203 (corequisites). Fall.

HCC 202. Paramedicine II. 4 Credits.
This course is designed to be taught to the National EMS Education Standards for paramedics. Upon completion of this course, the student through didactic, critical thinking group assignments and laboratory skills demonstration and simulations will be able to describe and integrate scene and patient assessment findings with epidemiology and pathophysiology to form a field impression, to use clinical reasoning to develop a list of differential diagnosis and modify the assessment to formulate a treatment plan. These sections will include scene size up, primary survey, history taking, secondary assessment, use of monitoring and diagnostic devices, reassessment and integration to assessment findings to medicine. They will understand the significance and characteristics of respiratory emergencies in infant, child, and adult populations. Students should be able to demonstrate a fundamental comprehension of the following topics: respiratory anatomy and physiology, pathophysiology, signs and symptoms of various respiratory etiologies (eg, asthma, chronic obstructive pulmonary disease, pneumonia), and the assessment and management necessary to provide basic and advanced care in the prehospital setting. Students will then learn airway management, respiration, and artificial ventilation which integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of ensuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098, FYE 101 or placement; HCC 111, HCC 112; BIO 152, HCC 201, HCC 203 (corequisites). Fall.

HCC 203. Paramedicine III. 3 Credits.
This course will be taught to the National EMS Education Standards for Paramedics. After completion of the course the student will have an understanding of pathophysiology as it pertains to cellular changes in response to stressors. The understanding of what happens when the cellular system can no longer maintain homeostasis is a key component of patient evaluation and treatment. Medication administration includes fluids and electrolytes—balanced and imbalanced—and the processes of osmosis and diffusion, discusses the various types of IV solutions used in the prehospital setting and the techniques of IV therapy and intraosseous infusion. Describes the mathematical principles used in pharmacology and for calculating medication doses (bolus and maintenance infusion). Paramedics administer medication in different forms and a discussion of these routes for administering medications. Childbirth and pregnancy are normally occurring states, but they are not without potential complications, including maternal death and fetal
death. With the advent of modern medicine, maternal and infant mortality rates have been significantly reduced, and close medical monitoring usually discovers problems well before childbirth. Finally students should be able to recognize behaviors that are associated with risk to providers, the patient, or others. They should be able to discuss medical/legal concerns of the treatment and transport of the patient having a psychiatric emergency. Students should be able to identify situations when restraints may be justified and whether chemical or physical restraint is the preferred method. Discuss potential causes of behavioral emergencies and medications that may be used in the treatment of psychiatric disorders. Describe the assessment process and safe management of the patient having a psychiatric emergency. The attendance policy must be followed and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: ENG 098, RDG 098 and FYE 101 or placement; HCC 111, HCC 112; BIO 152, HCC 201, HCC 202 (corequisites). Fall.

**HCC 211. Paramedicine IV. 3 Credits.**
This course taught to the National Educational Standards for Paramedics integrates comprehensive knowledge of pharmacology and shock and resuscitation to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient. Medication administration is a defining element of paramedic clinical practice. Paramedics use the science of pharmacology in a variety of ways, course content includes medication safety, medication legislation, naming, classifications, schedules, pharmacokinetics, storage and security, autonomic pharmacology, metabolism and excretion, mechanism of action, phases of medication activity, medication response relationships, medication interactions and toxicity. The student will also be able to integrate comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and prearrest states and apply comprehensive knowledge of the causes and pathophysiology of shock, respiratory failure, or arrest into the management of these conditions, with an emphasis on early intervention to prevent arrest. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: BIO 152, HCC 201, HCC 202, HCC 203 with a B- or higher; HCC 212, HCC 213, HCC 214 (corequisites). Spring.

**HCC 212. Cardiology. 4 Credits.**
Course concepts which will be taught to the National EMS Education Standards for Paramedics. Upon course completion the students will be able to describe the anatomy and physiology of the cardiovascular system as well as discuss epidemiological and pathophysiological conditions that impact this system. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of these conditions involving the cardiovascular system. They will be able to recognize signs and symptoms of common cardiovascular conditions and disorders, demonstrate relevant assessment techniques for cardiac function, perform diagnostic testing of cardiac status, and manage patients using techniques and skills for cardiovascular emergencies. Students will be able to discuss pathophysiology, risk factors, and common medications that may be seen in the cardiovascular emergency patient. They will be able to safely perform interventions and treatments for patients having a cardiovascular emergency. Students must successfully complete the American Heart Association Advanced Cardiac Life Support Course at the end of this program in order to go to Clinical 2. Prerequisites: BIO 152, HCC 201, HCC 202, HCC 203 with a B- or higher; HCC 211, HCC 213, HCC 214 (corequisites). Spring.

**HCC 213. Medical Emergencies. 3 Credits.**
The course concepts will be taught to the National EMS Education Standards for Paramedics. Upon course completion the students will be able to discuss epidemiological and pathophysiological conditions that impact these systems. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of medical emergencies related to the following systems: respiratory, neurological, endocrine, abdominal and gastrointestinal, diseases of the ears, eyes, nose and throat, genitourinary and renal systems, hematologic, immunologic, toxicology, infectious diseases, OB/GYN and psychiatric emergencies and environmental emergencies. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: BIO 152, HCC 201, HCC 202, HCC 203 with a B- or higher; HCC 211, HCC 212, HCC 214 (corequisites). Spring.

**HCC 214. Paramedicine Clinical I. 3 Credits.**
Students will complete a minimum of 200 hours in a hospital/clinical or lab setting. Student will participate in instruction within the clinical experience under the supervision of a preceptor. Clinical rotations will be completed in the following areas: psychiatric, labor and delivery and the OR anesthesia department. Students must document and complete all classroom work, clinical time and skills performed to the complete program requirements. In addition the student must complete all of the minimum number of clinical hours and skills as outlined in the clinical manual. Each clinical rotation has different hours that are assigned to the students so as a result after meeting the minimum hours and skills the student must complete in class lab sessions to achieve 110 hours. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 211, HCC 212, HCC 213 (corequisites). Spring.

**HCC 216. Paramedicine Clinical II. 5 Credits.**
Students will complete a minimum of 200 hours in a hospital/clinical setting. Student will integrate instruction within the clinical experience under the supervision of a preceptor. Clinical rotation will be conducted in a variety of medical-related facilities critical care areas including emergency division intensive/critical care units and pediatric units. Several in class days will be scheduled to
evaluate students clinical performance in the laboratory setting. Students must document all clinical time and complete program requirements. Students will demonstrate satisfactory performance of all program requirements and be successfully signed off by the program medical director at the end of this course. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 214 with a B- or higher; HCC 217 (corequisite). Summer.

**HCC 217. Trauma. 3 Credits.**
This course will be taught to the National Standards for Paramedic Training and will prepare the student for clinical and field internships. Students will be able to integrate comprehensive knowledge of trauma systems, mechanisms of injury, the causes, pathophysiology and basic and advanced management of traumatic injuries to the following areas: Soft tissue trauma and bleeding, burns, face and neck trauma, head and spine trauma, chest trauma, abdominal and genitourinary system trauma, orthopedic and environmental trauma. Students must also successfully complete and pass the National Association of EMT's PreHospital Trauma Life Support Course. Prerequisites: HCC 211, HCC 212, HCC 213, HCC 214 with a B- or higher; HCC 216 and successful completion of PHTLS (corequisites). Summer.

**HCC 220. Special Populations/EMS Operations. 5 Credits.**
This course will be taught to the National Education Standards for Paramedics and upon course completion the students will be able to discuss epidemiological and pathophysiological conditions that impact these systems. Students will be able to apply various patient presentations, integrate assessment findings, formulate a field impression, and implement a comprehensive treatment plan for management of medical and traumatic emergencies related to the following special patient populations including obstetrics, neonatal care, pediatrics, geriatrics and patient with special challenges. Students will develop an understanding of the anatomy, physiology, psychological development differences within these age groups. Students will demonstrate a foundational understanding of the various issues that are associated with the aging process, including physiological, psychological, and social changes that accompany advanced age. In addition the student will learn and demonstrate an understanding about EMS Operations and career development. Advanced Medical Life Support, Pediatric Advanced Life Support, Emergency Pediatric Care and Neonatal Resuscitation Program certifications must also be successfully completed for course completion. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the program. Prerequisites: HCC 216, HCC 217 with a B- or higher; HCC 221 (corequisite). Fall.

**HCC 221. Capstone Paramedic Field Internship. 5 Credits.**
Students will apply theory and acquired clinical skills while performing pre-hospital treatment under the supervision of experienced, certified paramedics during 150 hours of field internship. Students will complete 30 ALS patient contacts. 20 of these patient contacts must be as a team leader. The team leader patient contacts can only be completed in that 200 clock hours of this course once ALL classroom, lab, and clinical elements have been completed. Students will demonstrate satisfactory performance of all program requirements and be successfully signed off by the program medical director at the end of this course. Adherence to the attendance policy and completion of this course with a final grade of B- or better must be achieved in order to advance in the PAC program. Prerequisites: HCC 216 and HCC 217 with a B- or higher; HCC 220 (corequisite). Fall.

**HEALTH SCIENCES (HEA)**

**HEA 101. Health And Disability In The Older Adult. 3 Credits.**
This course explores the relationship between the aging process and the development of disability in older adults. Factors contributing to disability will be addressed with emphasis given to understanding the normal aging process, the present healthcare system and its impact on older adults, the disablement process, and the development of skills in identifying disability risk. Students will be encouraged to discuss their own perspectives and experiences with the subject area and to work in a team with their peers during online discussions, as well as individually on course projects. At the completion of this course students will have gained new insights into the aging process as well as a better understanding of factors that can lead to disability in older adults. Open to all health professions students. Students must have access to an internet able computer with modem speed of at least 56K. If not already equipped, free downloads for Windows Media Player, Adobe Acrobat Reader, and Windows PowerPoint Reader will be made available prior to initiation of the course. An online tutorial regarding use of the MWCC online learning site is available, and its use is strongly recommended.

**HEA 103. Medical Interpretation. 4 Credits.**
The goal of this course is to provide students with principles, methods, and competencies (both knowledge and skills-based) essential in the delivery of effective, reliable, and comprehensive interpreting in the clinical and human service field. It develops a theoretical and practical understanding of the multiple roles of the interpreter as well as the related ethical, cultural, and linguistic challenges in this evolving field. It explores contemporary issues in the field of medical interpretation including immigration trends, legal mandates, and certification.
HEA 104. Foundations Of Nursing Success (Formerly NUR 099). 3 Credits.
This course focuses on the basic concepts that form the foundation of nursing practice. It involves cooperative learning opportunities for exploring the practice of nursing and preparing students for the process and rigors of nursing education. In addition, this course will assist students in developing strategies to improve basic academic skills, study habits, time management, and concept of self with an aim of improving the likelihood of success once accepted into the nursing program. Through presentations, group work, lecture and discussion, fundamental knowledge for beginning nursing education is provided. Concepts integral to nursing practice, such as ethics, integrity, and requirements as stipulated in the Nurse Practice Act are also introduced. Prerequisites: MAT 092, RDG 098, or placement.

HEA 106. Exploring Health Careers: Charting a Plan for Success. 4 Credits.
This preparatory 4-credit course is designed for students who have an interest in healthcare which includes a 2-hour hands-on component. This course does not fulfill the requirements of a 4-credit lab course for transfer. The overall purpose of the course is for students to discern a healthcare career and formulate an integrated academic and career/life plan to meet that career objective. It will provide an exploration of healthcare careers, as well as deliver an overview of career planning as a lifelong process within the ever-changing medical landscape. Opportunities will be provided to explore, identify and align individual interests, attitudes, values, and skills with various healthcare occupational skills, requirements and work environments in healthcare. The psychomotor content will expose students to the physical contact element and hands-on skills required in any healthcare career. Topics may include, but are not limited to, CPR training, Narcan training, HIPPA training and Blood-borne Pathogens/PPE training and QPR training; it will provide a minimum of 3 healthcare providers as guest speakers. Additionally, this course will introduce personal and academic success strategies, financial literacy and non-cognitive skill development in areas of cultural competency, communication, health disparities, conflict resolution and professional behaviors. This course will provide students with the necessary skills to conduct a successful job search. Topics to be addressed include development of focused and realistic career objectives, job market strategies, resume & cover letter writing, career networking and interviewing skills. Prerequisites: ENG 101 placement or successful completion of ENG 098, FYE 101, RDG 098, or permission of division dean.

HEA 115. Nurse Assistant Theory. 3 Credits.
This course provides students with the theory and laboratory practice to safely care for clients in healthcare settings under the guidance of an instructor in a practicum course. Combined with successful completion of the practicum course, these students can safely care for clients in various healthcare settings. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HEA 116. Nurse Assistant Practicum. 2 Credits.
This course provides students the opportunity to practice and refine the nurse assistant theory and skills learned in the theory course. Students, under the supervision of a licensed nurse, will provide safe, basic care to clients in long term care settings. Students must have completed immunization record, including signed date of Hepatitis B series and negative PPD. Prerequisite: HEA 115 with a grade of C+ or higher.

HEA 117. Acute Care CNA Training. 3 Credits.
This course is designed to prepare Certified Nursing Assistants for employment in an acute care hospital setting. The curriculum provides a review of skills attained in the Nursing Assistant Training course including an emphasis on specialized acute care areas. These areas include medical, surgical, orthopedic, psychiatric, pediatric, and obstetric emphasis. This course offers a classroom and clinical competence based training, whereas each student participant will complete the required classroom, laboratory, and clinical training. Prerequisites: HEA 115, HEA 116 or current Certification as a Nursing Assistant in good standing, current CPR.

HEA 118. Home Health Aide. 2 Credits.
This course is designed to prepare Certified Nursing Assistants for employment in a home-like setting. The curriculum provides a review of skills attained in the Nursing Assistant Training course including a focus on providing care to individuals in their homes. This course will emphasize the importance of maintaining a safe and clean environment, recognizing emergencies and responding to such emergencies, and the physical, emotional, and developmental needs of those individuals served by the Home Health Agencies. This course offers a classroom and laboratory competence based training, where each student participant will complete the required classroom and laboratory training. Prerequisites: Current CPR certification, Certification as a Nursing Assistant, HEA 115, HEA 116.

HEA 119. Rehabilitation Aide Training. 3 Credits.
This course is designed to provide students with the necessary skills to serve as a rehabilitation or fitness aide in an outpatient, sub-acute or fitness center setting. Students will learn clerical and clinical skills necessary to provide support within a fully supervised setting. Prerequisites: ENG 101.

HEA 201. Evidence-Based Practice for Health Professions. 3 Credits.
In this course, students with begin to attain the knowledge and skills necessary to engage in evidence-based practice in allied health professions. Students will explore and improve their critical thinking and analytical skills to support decision making in the clinical setting. Students will locate peer-reviewed research with instruction/support from college librarians. They will utilize the PICOS
method to develop clinically-relevant questions to support evidence-based practice. This course culminates in the completion of a proposal and presentation for a research study. Prerequisites: ENG 102, MAT 143 (or higher) and completion of 45 credits.

**HISTORY (HIS)**

**HIS 105. History Of World Civilization I. 3 Credits.**
This course is an introductory survey of the major world civilizations from ancient times to 1600. The course profiles major events in the development of Europe, Asia, Africa, and the Americas up to 1600. Special emphasis will be placed on the interrelationships among these civilizations and on the role of religion in their development. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**HIS 106. History Of World Civilization II. 3 Credits.**
This course is an introductory survey of the major world civilizations from 1600 to the present. The course profiles major events in the development of Europe, Asia, Africa, and the Americas since 1600. Special emphasis will be placed on European events and their effects on the other civilizations of the world as well as on the interrelationships of the various civilizations toward each other. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**HIS 113. History Of Contemporary Issues. 3 Credits.**
This course focuses on domestic and world events as they occur, interpreted in the light of both historical background and current issues and events. Prerequisites: ENG 098, FYE 101, RDG 098 or placement.

**HIS 121. History Of The Constitution. 3 Credits.**
This course surveys the progress of constitutionalism in American life and its shaping of our society since 1776. Special emphasis will be placed on key Supreme Court decisions that have defined judicial review, free expression, religious freedom, due process, and the individual's right to privacy over the past 200 years. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 123. History Of Modern America. 3 Credits.**
Students study the relationship between foreign and domestic events and the evolution of American history from 1945 to the present. Special emphasis is placed on the legacies of the New Deal, World War II, Vietnam and their influences on the presidents of the last sixty years. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 125. American Ethnic History. 3 Credits.**
Students will examine the contributions of various ethnic groups to American society, as well as the problems that these groups encountered in the assimilation process. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 140. History Of New England. 3 Credits.**
The political, social, economic, and intellectual history of New England from Colonial times to the present is studied. Special emphasis is placed on New England's development as a distinct cultural region and its impact on American life. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**HIS 151. Contemporary American Military History. 3 Credits.**
This course is recommended for veterans. This course will review several incidents from post-World War II United States military history to critically analyze particular elements of doctrine, strategy, and the political context driving such actions. Students will also review the socio-political impact certain military actions had on American culture. Students actively participate by applying knowledge from select case studies to assess their historical value regarding resolution of current politico-military problems. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement). Spring.

**HIS 201. History of United States I. 3 Credits.**
This course will focus on United States history with an emphasis on how the country developed from settlements to the society it has today. It will analyze the problems encountered in forming a new republic, westward expansion, and sectional conflicts. The analysis will begin with the pre-Colonial period and continue through the Revolution, the War of 1812, Jacksonian democracy, the rise of political parties, and the social, economic, and political developments that formed the backdrop to the Civil War. The course will also look at how the Europeans and Africans who came to America developed unique American traditions that blended Old World customs into the New World experience. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**HIS 202. History of United States II. 3 Credits.**
This course will begin with the Reconstruction and will examine the social, economic, and political issues of the late nineteenth century as the country moved from an agrarian society to an industrialized nation, the emergence of the United States as a world power with World War I, the effects of the Great Depression on society and government, World War II, the Korean War, the Cold War, the Civil Rights Movement, Vietnam, Women's Rights, the War on Terror, and the challenges that America faces as it moves into a new century. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.
HIS 240. History Of Ideas. 3 Credits.
In this course, students survey significant ideas in Western culture from ancient times to modern America. Representative figures to be discussed include Plato, Aristotle, Cicero, Aquinas, Machiavelli, Calvin, Hobbes, Locke, Voltaire, Wollstonecraft, Burke, and Marx. Prerequisites: ENG 098, FYE 101, RDG 098, or placement; permission of division dean.

HOSPITALITY (HRM)

HRM 102. Introduction to Hospitality Management. 3 Credits.
This introductory course is a survey of contemporary hospitality and managerial practices and procedures that are pertinent to the hospitality industry. It examines the overall operation of hospitality including hospitality and tourism leadership, communication, front office leadership, customer service, housekeeping operations, facilities management, human resources, food and beverage service, and managing banquets and catered events. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

HRM 103. Hospitality Marketing. 3 Credits.
This course introduces the basic factors involved in implementing the “marketing concept” with an emphasis on the hospitality and tourism industry including the four elements of the marketing mix: product planning, promotion, pricing, and distribution. Also covered are the societal, legal, economic and competitive environments within which sales and marketing functions within the hospitality industry. Prerequisites: MAT 092, RDG 098, ENG 098, FYE 101 or placement.

HRM 199. Internship for Hospitality Management. 3 Credits.
In this course, students will apply knowledge, perform administrative procedures, and develop professional attitudes for interacting with other professionals and hospitality consumers in the actual hospitality industry. This will involve 120 hours unpaid experience at an MWCC-approved hospitality site. Prerequisites: ACC 101, CIS 127, BUS 125, HRM 102, and approval of the instructor.

HUMAN SERVICES (HST)

HST 101. Introduction To Human Services. 3 Credits.
Students are introduced to the organization and function of human service agencies as well as the ways in which the human services worker can deal effectively with the resources of the community. This course also acquaints the student with occupational information in the area of human services. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HST 115. Issues of Chemical Dependency in Family Systems. 3 Credits.
This course will introduce students to the significance of the family and external support systems in the maintenance and treatment of chemical dependency. Students will be introduced to the characteristics and dynamics of families, couples, and significant others affected by chemical dependency and/or process addictions. Students will examine basic family theories, assessment, and models of intervention and engagement in the treatment and recovery process. The interaction between the family system and substance use behaviors will also be discussed. Students will analyze the role of self-help groups, their functions, and how they differ from more formal treatment. Prerequisites: ENG 098, RDG 098, FYE 101, or placement. Fall.

HST 140. Counseling Methods And Interviewing Techniques. 3 Credits.
This course acquaints the student with current views of counseling principles and methods. Interviewing techniques are introduced and developed through a workshop approach that includes videotaping. Prerequisite: PSY 105 strongly recommended, may be taken concurrently.

HST 142. Counseling Methods and Interviewing Techniques II. 3 Credits.
This course builds on the foundation of HST 140 Counseling Methods and Interviewing Techniques. Course content includes therapeutic structures, issues that face the beginning counselor, models of therapy, and practical aspects of the work. The class will use a comprehensive approach that focuses on theoretical perspectives and case studies to enhance the understanding of counseling and interviewing. Prerequisite: HST 140.

HST 145. Introduction To Gerontology. 3 Credits.
Students are introduced to the field of gerontology, the multidisciplinary study of the biological, psychological, and social aspects of aging. This course explores the human aging process from these perspectives. A primary focus of this course is to replace myths with facts about aging and gain an understanding about what happens to older adults’ bodies, minds, status in society, and social lives as they age. Attention is also given to programs and services for the elderly. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

HST 149. Addictions Counseling. 3 Credits.
This course provides the student with an overview of substance abuse counseling. Students will develop conceptual knowledge, practical skills, and self-awareness concerning the etiology of addiction, assessment strategies, diagnosis and treatment planning, and wellness strategies for facilitating optimal development and preventing clinician burnout. Prerequisites: ENG 098, RDG 098, FYE 101, or placement. Fall.
HST 150. Cultural Awareness. 3 Credits.
This course focuses on understanding cultural differences. Students will examine their own culture and other cultures. Students will examine how racism, prejudice, and discrimination are embedded in all levels of society. Students will understand that race and ethnicity are historically, culturally, and socially bound and constructed. Students will examine the privileges that accompany whiteness. Student will examine intersectional research approaches that examine marginalized groups and explore race, ethnicity, gender, age and sexuality and how they are interconnected. This is the same course as SOC 150. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

HST 220. Psychopharmacology. 3 Credits.
This course introduces the student to the basic principles of pharmacology, anatomy, and physiology. These principles are applied to an examination of the major classes of psychoactive drugs, including those commonly subject to abuse. Students will explore the physical and mental effects of psychoactive drugs and compulsive behaviors. The mechanisms of action in the brain, patterns of physiological response in abuse, dependence, withdrawal and recovery will be discussed. Content will also focus on pharmacological adjuncts to detoxification and treatment, as well as psychotropic medication for co-occurring disorders. Prerequisites: HST 149. Spring.

HST 250. Human Services Internship Experience. 4 Credits.
During their last semester, students in this internship work directly with clients under the supervision of a professional worker in a human services setting. Students are expected to gain an understanding of the dynamics and appropriate treatment for clients and their families. Placements have included, but are not limited to, settings involving mental health, developmental disabilities, and community service projects. Students must complete 150 hours in addition to one class meeting per week. A consideration for placement includes an assessment of the student's readiness and faculty recommendations. The college also requires Criminal Offender Record Information (CORI) and liability insurance for all interns. Prerequisites: QPA 2.0, 45 credits earned toward the Human Services degree including ENG 102, HST 101, HST 140, PSY 110, PSY 240, SOC 103, and permission of department chairperson.

HST 260. Human Services Seminar (Capstone). 3 Credits.
In this capstone course, students synthesize and apply concepts and skills learned in the Human Services (HS) program. This course requires students to show mastery of the material covered in the HS program through several required avenues including the following: seminar meetings and discussions; portfolio work; and a research paper. This course is designed to help students apply the knowledge and skills learned in the program and to explore self-perceptions related to their career choice in the human services field. Students must complete this course with a minimum grade of C to graduate. Prerequisites: 45 credits earned toward the Human Services degree including ENG 102, HST 101, HST 140, PSY 105, PSY 110, PSY 240, SOC 103, or permission of division dean. Spring.

HST 270. Practicum for Substance Abuse Counseling. 6 Credits.
This course provides a practical, field-based experience of 300 hours in an alcohol/chemical dependency treatment facility as required for Massachusetts Board of Substance Abuse Counselor Certification. The practicum is an integral component of the alcohol and drug addiction counseling program. Academic and applied counseling skills are synthesized and used by students in an addiction counseling setting. Practicum is a vital educational component for future CADCs to learn and practice the 12 Core Functions and 8 Practice Domains of an addiction counselor in a supervised setting. To qualify for the Massachusetts State Test as a LADC or a CADC you will need to maintain a C grade in all SACC program courses. To graduate with a MWCC Substance Abuse Counseling Certificate you will need to maintain a passing grade. Prerequisites: HST 115, HST 140, HST 142 (or corequisite), HST 149, HST 220 (or corequisite); SOC 129. Spring.

HUMANITIES (HUM)

HUM 212. Medical Ethics. 3 Credits.
This course will address the ethical dilemmas involved in medical decision-making by physicians, healthcare workers, patients, and society. A seminar format will be implemented, where the emphasis will be placed on critical thinking skills. Students will be expected, and required, to do independent research, case study analyses, and to articulate well-honed positions, both orally and in writing. Major topics to be covered are abortion, doctor-assisted suicide (euthanasia), research with living subjects (animal and human), allocation of scarce resources, new reproductive technologies and rights, professional responsibility, mental incompetence, death and dying, and genetic-related issues such as cloning, designer babies, and stem cell research. In addition to the assigned readings, students will be required to participate in class discussions; to maintain a journal for personal reflection and case study analyses; to submit two critiques and two position papers; and to submit and present (PowerPoint) a research paper based on an approved topic. Prerequisite: ENG 101.
HUM 240. Comparative Religion. 3 Credits.
The course will examine, compare, and contrast, in a non-judgmental way, the history and beliefs of the five major world religions: Hinduism, Buddhism, Judaism, Christianity, and Islam. Attention will also be given to Native American traditions. Prerequisite: ENG 101.

HUM 260. The Art Of Being Human I. 3 Credits.
The course introduces students to the humanities, art, literature, music, theater, philosophy, and religion and the influences people use to determine value in their world. Attention is given to Western and non-Western cultures and to the ways these civilizations are interconnected, with emphasis on how the cultural, religious, and philosophical ideals of a civilization are reflected in its artistic expression. In addition, through critical thinking students will be encouraged to explore the relationship between their belief systems and the society of which they are a part. Prerequisite: ENG 101.

HUM 283. Honors Research Seminar: Mythscapes: The Geology and Mythology of Iceland. 3 Credits.
This interdisciplinary course will introduce students to both the nature and culture of Iceland. The essential question the course will examine is how landscape and nature shape the stories we tell and the art we make. Iceland is a relatively small country rich in geological treasures. We will study the science of its volcanoes, geysers, and glaciers, as well as how the landscape was used in the sagas of the early settlers, many of which were inspired by Norse mythology. Prerequisites: Permission of the Honors Program Coordinator. Spring.

HUM 290. Travel and Study: International Culture, Philosophy, and Arts. 3 Credits.
An interdisciplinary travel study course to explore international culture, philosophy, and arts through on-campus sessions and travel abroad, site visits, readings, discussions, and research projects. Trips may include service learning components or home stays in the destination country. Prerequisites: ENG 098, FYE 101, RDG 098, or placement; at least 12 credits at MWCC or permission of dean.

INTERDISCIPLINARY STUDIES (ISC)

ISC 101. The Holocaust: Evil And Good In The Human Condition. 3 Credits.
In the whole of human history there has never been an event like the Holocaust. Between 1933 and 1945, the Germans murdered over ten million people as a matter of state policy. In this introductory course, students will begin the study of the causes of the Holocaust, the events themselves, and the implications of the Holocaust for ourselves as individuals and for our own time. Prerequisite: ENG 101. Spring.

ISC 120. Community Service Learning Initiative. 3 Credits.
This course provides an excellent opportunity for students to better understand the needs/hardships of others outside of their everyday experience. It is geared to improve upon and build communicational, organizational, and interpersonal skills. This course will bridge civic engagement (responsible for planning activities within the community by volunteering 30 hours of time and inspiration) with service learning opportunities (community-based experience relating to course material) for the student by working with special population groups in the community (i.e., mentally, emotionally, or physically challenged). This course enables students of all majors the opportunity to experience serving in human service organizations fostering personal growth. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

ISC 220. The Interdisciplinary Capstone. 3 Credits.
The purpose of this course is to have students experience scholarship and research as an interdisciplinary, social enterprise. Students will explore and improve their critical thinking, analysis and argumentation skills. They will strive to become stronger independent thinkers and to investigate subjects of interest within their field of study. Students will integrate different disciplinary perspectives and knowledge gained through their prior coursework to explore global, national and local social issues. The course is inquiry based and draws upon the diverse skills and resources of students and faculty to create a student-driven, interdisciplinary course experience. Prerequisites: Enrollment in the IDS or IDSH program, ENG 102, one behavioral social science elective, completion of 45 credits, or permission of the dean. Spring.

ISC 225. Professional Internship. 1-9 Credit.
This course offers students an opportunity to enhance their academic studies with work related to their chosen field of study. It involves a partnership among MWCC, the student, and an employer. Participants may need to submit to a CORI (Criminal Offender Record Information) check prior to placement. Prerequisites: Permission of the department chairperson and dean, GPA of 2.5 or better, and a minimum of 24 earned credits.

LEGAL STUDIES (LAW)

LAW 101. Introduction To Law (Formerly PLS 101). 3 Credits.
This course introduces students to basic legal concepts, principles, and procedures. It is designed to provide students with an understanding of the structure of the U.S. legal system, including the role of the judicial, legislative, and executive branches; the history of law in the United States; the role of attorneys, paralegals, law enforcement, and other legal professionals; basic categories
of law; litigation principles; and alternative dispute resolution. In addition, students will be introduced to a wide variety of ethical standards that apply in the legal community. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 104. Introduction To Family Law (Formerly PLS 104). 3 Credits.**
This course reviews the substantive and procedural law relative to divorce, adoption, guardianship, custody, and other family law matters within the jurisdiction of the Probate Court. Topics include the legal status of children, legal rights of women, and illegitimacy and paternity proceedings, as well as divorce procedures and child custody and support issues. Students will be introduced to contract law as its principles are specifically applied to ante nuptial agreements, separation agreements, and surrogacy agreements. Related areas of law such as juvenile, criminal, and tort law are also discussed, as are relevant administrative agency regulations. Legal concepts will be applied to particular factual situations, thus developing and enhancing critical skills such as analysis. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 106. Introduction To Real Estate Law (Formerly PLS 106). 3 Credits.**
This course familiarizes students with the substantive area of real estate and property law. Fundamental legal principles are discussed in the context of business practices in the real estate industry. Topics include purchase and sales agreements, mortgages, leases, recording, easements, and deeds. The traditional law of property rights is discussed as well as recent developments in statutory and case law. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 110. Litigation (Formerly PLS 110). 3 Credits.**
This course introduces students to the law office and the steps and tasks involved in civil litigation, the process in which one person sues another person in a court of law to enforce a right or seek a remedy such as financial compensation. Students will learn the role of the litigation paralegal throughout an entire case. This includes investigation and gathering of facts, discovery, trial support, and judgment enforcement. Study will be made of the procedural rules that facilitate the fair resolution of conflicts and the substantive law that forms the basis of the rights and remedies protected by the civil litigation system. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 220. Insurance Law (Formerly PLS 220). 3 Credits.**
This course provides students with an understanding of the fundamental principles and doctrines of insurance law. The course develops general understanding of basic concepts and encourages the critical evaluation of the insurance law rules. Topics include fundamentals of insurance principles and basic legal doctrines. The student will gain an understanding of the public policy interests that influence specific laws, doctrines, or rules. Analysis is performed of court-formulated rules that regulate the relationship between insurers and persons who are applying for insurance, have acquired insurance, or are identified as beneficiaries under a contract of insurance. Particular emphasis is placed on problems presented by insurance for health or medical expenses and motor vehicles. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 230. The Law Of Torts (Formerly PLS 230). 3 Credits.**
This course introduces students to the fundamentals of torts law and civil wrongs that have caused harm to person or property. Specific causes of action, elements of torts, and prima facie cases are discussed in the context of the three categories of torts: routine personal injury; high-stakes personal injury; and mass latent-injury. An emphasis will be placed on the development of analytical skills and the application of legal concepts to particular factual situations. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**LAW 250. Legal Research and Writing I (Formerly PLS 250). 4 Credits.**
This course introduces students to the basics of legal research and writing. Students will learn how to analyze a problem, develop a research strategy, access information using primary and secondary sources, and draft legal documents. A functional approach to research is stressed and emphasis is placed on development of the skills necessary to find and understand case law, statutes, administrative regulations, and constitutional law. Students will be introduced to both the computer-aided research, including the Internet and CD systems, and book-based research. Prerequisite: ENG 101.

**LAW 251. Legal Research And Writing II (Formerly PLS 251). 3 Credits.**
This course reviews and expands on the basic legal research sources and skill provided in LAW 250 Legal Research and Writing I. Students work specifically with legal research materials such as cases, codes, rules and regulations, and practice effective legal writing by creating legal documents. It provides students with a systematic approach to learning legal analysis, organization, and writing. The process is sequentially structured so that students may concentrate on mastering each necessary skill before proceeding on to another. Students are provided with an opportunity to develop their writing abilities with specific focus on the preparation of briefs, pleadings, and legal documents. Prerequisite: LAW 250.

**LAW 262. Estate Planning (Formerly PLS 262). 3 Credits.**
This course is an introduction to wills, trusts, and estates. Topics include intestacy, estate administration, estate taxes, and the use of wills and trusts to plan disposition of one's estate. The probate process including the probating of a will, contested proceedings, and administration of an estate is studied. Students will draft associated legal documents such as wills and specialized trusts. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.
LAW 265. Paralegal Practicum (Formerly PLS 265). 3 Credits.
Students will be placed in paralegal work environments such as private law firms, courthouses, state and local government agencies, or state and municipal government offices depending on their area of interest. In exchange for credit, students will complete a 120-hour practicum. Students will participate in a variety of activities normally associated with paralegal employment in the specific field chosen by the student. This typically includes obtaining client intake information, performing litigation support, conducting legal research, and preparing legal documents such as mortgages and deeds. Prerequisites: ENG 101, LAW 250 or permission of division dean.

LAW 270. Legal Studies Seminar (Formerly PLS 270). 3 Credits.
This course is structured to help students integrate knowledge from across the legal studies curriculum in preparation for the transition to working as paralegals or continuing their legal education. Students will integrate and apply knowledge related to substantive and procedural legal topics from an interdisciplinary perspective. Students will integrate and apply knowledge, theory, and understanding developed from their previous coursework in the legal studies program. Students will complete at least one major research and writing project that will require at least one oral class presentation. Prerequisites: BUS 211, ENG 102, LAW 101, LAW 104, LAW 110, LAW 250.

MANAGEMENT (MGT)

MGT 110. Introduction to Business. 3 Credits.
Business entrepreneurs fail most frequently because of the inability to plan and to master business operations after recognizing a business opportunity. This course will deal with business planning and operations as they relate to the entrepreneur. Organizational operations are discussed with attention to business and management functions. Prerequisites: ENG 098, RDG 098, FYE 101, MAT 092 or placement.

MGT 210. Principles Of Management. 3 Credits.
This course is a survey of traditional and contemporary principles of management and of the application of behavioral science and quantitative concepts to the solution of actual business organization problems. It is an introductory course dealing with the structure of business, its environment, and its relationship to society, and the individual members of the class. It examines the operation of business, how a firm's structure and management are determined, the methods by which companies produce products and services, the way they manage human and physical resources, market their goods and services, finance operations, and the techniques they use to control operations and meet their responsibilities. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MGT 235. Human Resources Management. 3 Credits.
This course focuses on the development and retention of an efficient work force, including such topics as the construction and use of occupational descriptions, sources of labor, application forms, interviewing, testing, training, job analysis, and wage plans and policies. Course offered during the fall semester only. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement. Fall.

MGT 250. Strategic Management. 3 Credits.
This course prepares students to integrate important current issues in strategic management with key learning from MWCC business curriculum courses. It concentrates on in-class presentations and work team approaches to learning with a focus on critical thinking. It is designed with an applied perspective and highlights significant emerging trends in strategic management. It is intended to provide students with the business skills and knowledge transfer that prepares them for further baccalaureate learning and on-the-job implementation of corporate, business, and functional strategies. Registration is restricted to business degree graduating sophomores only. Prerequisites: ACC 101, ACC 102; CIS 128 or CIS 121; ENG 102, and 45 credits earned toward a BA, BAC or BACA degree.

MARKETING (MKT)

MKT 142. Marketing. 3 Credits.
This course introduces the basic factors involved in implementing the "marketing concept" with emphasis on the four elements of the marketing mix: product planning, promotion, pricing, and distribution. Also covered are the societal, legal, economic, and competitive environments within which the modern marketing organization functions. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MKT 143. Retail Management. 3 Credits.
This course includes topics such as competition, motivation, risk, buying, pricing, store location, and planning and controlling inventories. The management approach to the study of retailing is emphasized. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

MKT 241. Advertising. 3 Credits.
This course focuses on the role of advertising as a communications component in the marketing process. Topics include advertising agency operations, product and media research, media selection and buying, integrated marketing communications, and the creative
process. Students will examine case studies and develop ad campaigns. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**MATHEMATICS (MAT)**

**MAT 092. Foundations of Mathematics. 4 Credits.**
This course is designed for students who need remedial instruction in arithmetic and basic Algebra. Topics studied include: whole numbers order of operations, prime factorization, fractions, decimals, percent, rates, ratios, proportions, signed numbers, variables, algebraic expressions, formulas and equations, graphing linear equations, exponents, scientific notation, and an introduction to polynomials. Students must pass the exit exam with a grade of “C” or better and earn an overall average of “C” in the class for successful course completion. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

**MAT 093. Statway. 1 Credit.**
This course is designed for students who need support to succeed in MAT 143. Topics studied include: points and intervals on the number line, the distance between two points on the number line, powers of a number, the square root of a number, summation notation, set notations, Venn diagrams, the union and intersection of sets and the complement of a set, graphing points and lines in two dimensions, understanding slope as the change in y associated with a 1-unit change in x, the equation of a line and the graph of the line, and the vertical distance between a point and a line. This course is required for students who are taking MAT 143 and who successfully completed MAT 092. Prerequisites: MAT 092; MAT 143 (corequisite). A GRADE OF “C” OR HIGHER IS REQUIRED FOR PASSING.

**MAT 097. STEMWAY. 2 Credits.**
This course completes the developmental math curriculum and prepares students for the credit-bearing course Introduction to Functions & Modeling. Topics include: polynomials and exponents, factoring polynomials and solving equations, rational expressions, radical expressions, quadratic equations and introduction to functions. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR PASSING. Prerequisite: MAT 092.

**MAT 126. Topics In Mathematics. 3 Credits.**
This course explores a number of important ideas and practical applications in contemporary mathematics. Required topics include: problem solving strategies; measurement and the metric system; set theory; equations and inequalities; graphing and linear functions; consumer applications such as interest, annuities and present value; and basic statistics. Teachers will select one or two additional topics (as time permits), such as, history of math, voting and apportionment, logic, probability, or geometry. This course meets the Quantitative Reasoning requirement. Prerequisite: MAT 092 or placement.

**MAT 140. Elements Of Mathematics I. 3 Credits.**
This course provides a comprehensive, conceptually-based study of the rational and real number systems, along with fundamental concepts of number theory, in order to develop deep levels of understanding of these concepts. Topics include: numeration systems; algorithms for the addition, subtraction, multiplication and division of whole numbers, integers, fractions, and decimals; factors and multiples; greatest common factor and least common multiple; ratio, percent and scientific notation; rational and irrational numbers. Inquiry based instruction, problem solving skills, project work, and the appropriate use of mathematical models are emphasized. This course is recommended for Early Childhood and Elementary Education majors only. Prerequisite: MAT 092 or placement. No calculators allowed.

**MAT 143. Statistics. 3 Credits.**
This course presents students with an understanding of elementary statistics by familiarizing them with basic concepts of measures of central tendency and variability, regression and correlation, probability, discrete and continuous random variables, the Central Limit Theorem, confidence intervals, and hypothesis testing. A calculator is required. MAT 093 is required for students taking this course who tested into and successfully completed MAT 092 with a grade of C or better. Prerequisites: MAT 092 or placement; MAT 093 corequisite for students who tested into MAT 092 and successfully complete this course with a C or better.

**MAT 162. Introduction to Functions & Modeling (Formerly MAT 134). 4 Credits.**
This course provides an introduction to functions, graphing techniques, and modeling. Topics included: visualizing and graphing data, functions and their representations, type of functions and their rates of change, linear functions and equations, Quadratic functions and equations, polynomial, rational and radical functions and equations, and introduction to exponential and logarithmic functions. MAT 097 is required for students taking this course who tested into and successfully completed MAT 092 with a grade of C or better. Prerequisite: MAT 126, MAT 143 or higher; or placement; MAT 097 corequisite for students who successfully completed MAT 092 with a C or better and have not completed a college level math.

**MAT 163. Pre-Calculus. 4 Credits.**
This course is a preparation for MAT 211 Calculus I. Topics include: Mathematical Modeling; Exponential and Logarithmic Functions; Trigonometric Functions; Trigonometric Identities; Laws of Sines and Cosines, Vectors, Polar Coordinates, and Systems
of Equations in Two Variables. Computers and/or graphing calculators are used to enhance the study of mathematics. Prerequisite: MAT 162.

**MAT 180. Discrete Mathematics. 3 Credits.**
This course is an introduction to discrete mathematics with a primary focus on applications for students majoring in Mathematics or Computer Science. Topics covered include logic, elementary number theory, methods of proof, mathematical induction, set theory, combinatorics, functions, recursion, relations, efficiency of algorithms, graphs and trees. Prerequisite: MAT 162 or higher math placement. Spring.

**MAT 211. Calculus I. 4 Credits.**
This course is an introduction to the concepts and methods of differentiation and their application in the areas of engineering, economics, and life sciences. The following topics are covered: differentiation of polynomial, rational, trigonometric, and composite functions; a study of limits; related rates; optimization problems; curve sketching; antiderivatives; and indefinite integration. Prerequisite: MAT 163 or placement.

**MAT 212. Calculus II. 4 Credits.**
This course is a continuation of MAT 211 Calculus I with emphasis on the methods of integration and their applications. The following topics are covered: integration of algebraic, trigonometric, inverse trigonometric, logarithmic, and exponential functions; area between two curves; volumes; arc length; work; fluid pressure; Hospital's Rule; Sequences and Series. Prerequisite: MAT 211.

**MAT 213. Calculus III. 4 Credits.**
A continuation of MAT 212 with emphasis on parametric equations, polar coordinates, vector functions, analytic geometry in space, and multivariable calculus. Topics include: parametric equations, polar coordinates, vectors, dot products and cross products, motion in space, length of curves, planes and surfaces, partial derivatives, max/min problems, Lagrange multipliers, multiple integrals, vector calculus, Green's Theorem, Stokes' Theorem and the Divergence Theorem. A formal project report that incorporates the mathematics of the course will be required in this course as a capstone experience. Prerequisite: MAT 211. Spring.

**MAT 220. Linear Algebra. 4 Credits.**
This course covers systems of linear equations, Gaussian Elimination, vector equations, linear independence, linear transformations, matrix algebra, inverse of a matrix, subspaces, dimension, rank, determinants, vector spaces and bases, eigenvalues and eigenvectors, The Characteristic Equation, diagonalization, inner product, and orthogonality. The instructor reserves the right to pick applications from the following fields: Computer Science, Engineering, Economics, the Physical Sciences, or Statistics. Prerequisite: MAT 212 or corequisite. Fall.

**MAT 230. Ordinary Differential Equations. 4 Credits.**
Differential Equations begins with some definitions and terminology and mathematical models used in a differential equations course. First-order and higher-order differential equations, along with the methods of solutions and their applications are introduced. Modeling with higher-order, Laplace transform, and systems of linear first-order differential equations are covered. At the end, students learn series solutions of linear equations. Numerical methods are covered throughout the course. Prerequisite: MAT 212 or corequisite. Spring.

**MECHANICAL ENGINEERING (MET)**

**MET 220. Introduction to Robotics in Automation. 3 Credits.**
The course introduces the student to safety working with robots, as well as robot programming, operation, troubleshooting and interfacing with automation equipment. The topics include OSHA guidelines for robotic safety, controllers, program creation, branching, modes of operation, jogging, frames, teach pendants, registers, I/Os, macros, fault recovery, backup & restoration of programs and tooling. Hands-on labs will include creating & testing programs, recording and editing positions, jogging the robot, running in auto mode, backing up programs and files, and part manipulation in a mechatronics system. Prerequisite: PLT 104. Spring.

**MEDIA ARTS & TECHNOLOGY (MRT)**

**MRT 105. Introduction To Mass Media (Formerly BCT 105). 3 Credits.**
Students examine the effects and impact of the mass media on contemporary life. Emphasis is on the influence of television, film, radio, Internet, and print media in such areas as entertainment, news, politics, advertising, popular culture, and human behavior. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**MRT 106. Introduction to Human Communication. 3 Credits.**
The course introduces students to key concepts, perspectives, research fields, and methods in the study of human communication. Weekly content balances theoretical approaches and practical skill development. The role of the individual and the influence of society in communication processes are discussed. Prerequisite: ENG 098, FYE 101, RDG 098, or placement.
MRT 110. Fundamentals of Video Production. 3 Credits.
Students are introduced to the basics of video recording and editing. Instruction focuses on developing the pre-production, production, and post production expertise required to successfully plan and execute video programs. An overview of video technology is included. MRTV students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 112. Introduction to Audio Production. 3 Credits.
Students are introduced to the basic procedures and skills used by audio professionals. In order to achieve a basic understanding of sound as it relates to media productions, students perform recording and editing techniques of dialog, radio style production, as well as studio and location sound practices used for video and film. Two hours lecture and two lab hours per week. MRTA students must earn a C or better in the course. Fall (days). Spring (nights). Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 121. TV Studio Operations and Multicamera Production. 3 Credits.
This course encompasses the processes, equipment, facilities, and skills employed in television studio and multicamera production. Emphasis is placed on the operation of cameras, switchers and related equipment, the responsibilities of the production crew, and the direction of live-switched, multicamera production. MRTV students must earn a C or better in the course. Prerequisite: MRT 110. Spring.

MRT 122. Fundamentals of Audio Postproduction. 3 Credits.
Students are introduced to equipment, procedures, and techniques used on location and in studios for careers in audio for the television and film industries, with an emphasis on post production signal processing and editing. This course builds on the information and skills acquired in MRT 112 Introduction to Audio Production. Two hours lecture and two hours lab per week. MRTA and MRTV students must earn a C or better in the course. Prerequisites: MRT 112. Spring.

MRT 123. Film Studies. 3 Credits.
The course introduces students to key concepts of film analysis and production, including film narration, language, technology, history, genres, styles, and issues of gender, ethnicity, and identity. American and global cinemas will be discussed. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MRT 202. Media Arts & Technology Internship I. 3 Credits.
In this course, students earn academic credit while gaining on-the-job experience and training at a broadcast operation or other electronic media-related facility. The student's performance is evaluated by the instructor and the employer. The student will participate in periodic seminars with the course coordinator, and must prepare a detailed account of the internship at the end of the semester. Offered occasionally. Prerequisites: Minimum of 21 college-level credit hours completed.

MRT 208. Writing For Visual Media (Formerly Scriptwriting). 3 Credits.
Students are introduced to various forms of writing for mass media, including but not limited to writing for print, broadcast, and visual production. During the course of the semester, students will produce appropriately formatted scripts for their portfolios. MRTV students must earn a C or better in the course. Prerequisites: ENG 101; Students enrolled in MRTV should also take recommended corequisite MRT 216. Spring.

MRT 211. Advanced Audio Production. 3 Credits.
This course builds on information and skills acquired in MRT 112 and MRT 122. Students gain competency with configurations of complex audio systems, matrixes of multibus mixers, digital mixers, advanced techniques in dialog recording, tone shaping, and music editing. Foley work, sweetening, and mixing for picture are major parts of this course. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 216. Digital Cinematography. 3 Credits.
Students employ production skills acquired in previous classes to effectively craft creative and compelling visual stories and movies. In this course students combine the aesthetics, concepts, and techniques filmmakers have practiced since the days of silent films with contemporary digital technology to create films that will effectively inform, entertain, or persuade today's discerning audiences. MRTV students must earn a C or better in the course. Prerequisites: MRT 229; Students enrolled in MRTV should also take recommended corequisite MRT 208. Spring.

MRT 217. Critical Listening for Audio Engineers. 3 Credits.
This course focuses on awareness of sound. Ear training and auditory recognition are developed through directed listening tasks, discussions, and research. Topics include types of listening, listening environments, sound systems and devices, eras in sound, including equipment and technique, with analytical study of sound engineers' choices in broadcast, cinematic and musical genres. MRTA students must earn a C or better in the course. Prerequisite: MRT 122. Fall.

MRT 223. Independent Study In Media and Electronic Arts. 3 Credits.
This course is an advanced practicum experience in which the individual student, under the guidance of a staff member, develops his/her broadcast telecommunications skills at a professional level. Prerequisite: Permission of division dean. Offered occasionally.
MRT 224. Music Recording and Mixing Techniques. 3 Credits.
This course is the culmination of audio training at MWCC. Students are trained in methods of both recording and mixing music. Sonic spaces, microphone choice and placement, equipment preference and sequence, technical and personal etiquette in recording musical performances involving audiences, stages, or studios - are all practiced in hands-on training in small to large production crews. Mix training utilizes class recordings of live musicians and other prerecorded material. Students mix projects from start to finish, and assist or complete professional-level mixes with the instructor. Training in mastering is applied to an audio portfolio of the student’s best to work to date. MRTA students must earn a C or better in the course. Prerequisite: MRT 211. Spring.

MRT 228. Self Promotion and the Business of Media Arts. 3 Credits.
This course prepares students to advance their careers in the media arts. Students learn to use social media and personal and industry websites to market themselves to employers and clients. Effective job searching, proposal writing, and resume development are covered. Freelancing, small business operations, and professional/ethical responsibilities are emphasized. Students research legal issues such as copyright and trademarks, contracts and tax structures that impact on the media professional. Offered as independent study by permission of division dean for night students. Prerequisite: ENG 102. Spring.

MRT 229. Video Postproduction (Formerly Editing Digital Video). 3 Credits.
Building on their knowledge of video production, students will develop expertise in the technology and techniques of digital, nonlinear editing. This course introduces the fundamental concepts, terminology, and operation of nonlinear editing systems. Throughout the course, students develop an understanding of the techniques and aesthetics video and film editors employ as effective storytellers. Using industry standard, nonlinear editing systems, students practice applying the craft of editing, assembling sequences of pictures and sounds to create finished programs including titles, graphics, and special effects. MRTV students must earn a C or better in the course. Prerequisite: MRT 210. Fall.

MEDICAL ASSISTING (MAS)

MAS 102. Medical Terminology. 3 Credits.
This course provides students with a clear understanding of medical vocabulary. A workbook-text format is used to develop word-building activities that guide students through exercises that teach and reinforce medical terminology. Numerous and varied activities challenge students to understand and remember the significant concepts of medical word building. The online Medical Language Lab and the DavisPlus Resource Center provide reinforcement of pronunciation, spelling, definition of medical words, and basic anatomy and physiology of the body systems. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

MAS 105. Introduction to Medical Assisting. 2 Credits.
This course provides a foundation of the administrative skills required to function as an entry-level medical assistant in an ambulatory care facility. Focus is placed on psychological, social, and developmental concepts applicable to caring for individuals and families in a variety of healthcare settings. Students will be introduced to administrative functions, telephone techniques, appointment scheduling, patient reception and processing, and legal concepts affecting patient care, drug regulations, and employment. Students will develop interpersonal communication and organizational skills to work professionally in a medical office. Emphasis is placed on high standards of ethics in relation to the patient and profession. Prerequisites: ENG 098, FYE 101, RDG 098.

MAS 130. Medical Terminology and the Body Systems. 4 Credits.
This course is designed to provide students with a clear understanding of two important concepts in healthcare, medical terminology and the relationship between structure and function. It offers fundamental concepts as to the origin of medical terms, word building as well as the various word parts and their uses when constructing and analyzing medical terms. A workbook-text format is used to help understand the principles of word building and an online learning management system platform containing audio and visual aids is utilized to enhance learning including proper pronunciation of words. The integration of concepts about the various organ systems and their functions including comparison of structure and function of the human body across the life span, identifying the various organs composing each organ system, relevant pathology, signs and symptoms including treatment, facilitate retention of concepts learned in medical terminology. The online Practice Anatomy Lab (PAL 3.0) containing virtual human cadaver dissections, histology and illustrations provides additional audio and visual aids to facilitate learning. It utilizes an adaptive-based learning platform that caters to the needs of each individual learner and online student activities for this course are assigned to further clarify concepts and enhance learning. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Fall.

MAS 180. Advanced Medical Administrative Procedures. 4 Credits.
This course will provide additional administrative skills that will allow students to function more effectively in the administrative area of a medical facility. Among the topics included will be advanced communication skills to analyze the needs of the patient, basic database management, templates, creating and analyzing reports, tables, and graphs. Each topic will be further explored in lab utilizing case studies. Prerequisites: MAS 105, MAS 230 (or corequisite). Spring.
MAS 201. Medical Machine Transcription. 3 Credits.
This is a beginning medical transcription course designed to provide students with a working knowledge of the transcription of medical reports. Medical reports will be transcribed from ten individual case studies, each of which concerns a specific system of the body. The case studies have been taken from hospital medical records. The medical reports included are history and physical examinations, radiology reports, operative reports, pathology reports, requests for consultation, discharge summaries, and death summaries. Prerequisites: EOA 106 or placement; MAS 130. Spring.

MAS 206. Medical Assisting Lab Procedures. 4 Credits.
Students are introduced to clinical laboratory aspects of medical assisting and learn to perform the following: use quality control principles during patient specimen collection and instrument and reagent preparation; prepare and maintain quality control records; perform and record results for basic hematologic, chemistry, serologic, and microbiologic tests; collect and label biological specimens including blood, urine, stool, sputum, throat, and vaginal; process, prepare, store, deliver and dispose of specimens along with collection equipment; and use universal precautions and laboratory safety protocols. Three hours lecture and two hours lab per week. Prerequisites: MAS 105, 130, 207, and 208 successfully completed with a grade of C+ or better. Spring.

MAS 207. Medical Assisting Clinical Procedures. 4 Credits.
Medical assisting clinical procedure is a four-credit course consisting of three hours lecture and two hours lab per week. Students will learn the theoretical aspects of clinical concepts that are applicable in a healthcare setting as well as learning the proper execution of medical procedures when assisting practitioners, patients and in the administration of clinical procedures. Concepts covered in this course include various diagnostic and therapeutic modalities, preparation and administration of medications, taking vital signs, recognizing emergencies, proper use of medical equipment and devices, stocking supplies, proper sharps disposal, history taking, assisting in physical exams and treatments, proper identification of patients and patient instruction for medical procedures, dietary modification and follow up. Homework are completed online and the use of videos consisting of clinical procedures and scenarios provide additional learning materials that enhance understanding of concepts covered in class. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Corequisites: MAS 105, 130. Fall.

MAS 208. Principles Of Pharmacology. 2 Credits.
This course examines current and commonly used practices, procedures, medications, and drug preparations. Emphasis is placed in three areas: medication calculations; drug book usage; and the effects of drugs on the body systems. Instruction on the system of measurements and conversions used to calculate medication dosages will be provided. The use of a drug book will be taught with emphasis on drug classifications, routes of administration, drug preparation, and patient education. Discussion on the effects of drugs on the body systems will include interactions and vitamins and supplements. Additional topics will include safety protocols, compliance with drug regulations, and quality control of prescription requests. Students will apply critical thinking regarding patient assessment and develop skills for effective patient communication, care, and education. Prerequisites: MAS 130 (or corequisite); MAS 207 (or corequisite); MAT 092 or placement. Spring.

MAS 209. Medical Legal Concepts, Practices, And Ethics. 3 Credits.
This course prepares students to work in a medical office. All aspects of medical employment are explored from new laws relevant to the medical office to OSHA, DEA, CDC, and HIPAA regulations most important to medical office workers. Prerequisites: ENG 098, FYE 101, RDG 098 or placement. Spring.

MAS 211. Externship Experience for Medical Office Certificate. 3 Credits.
This externship experience will allow student to apply knowledge, perform administrative procedures and develop professional attitudes for interacting with other professionals and healthcare consumers. Placements include actual medical offices, clinics, and/or healthcare facilities. The field experience, seminar and certification review will equal 120 hours. Students are expected to complete a minimum of 15 hours/week at the externship site. Prerequisites: MAS 105, MAS 130, MAS 180, MAS 230, ENG 101 and SOC 150. Corequisite: BUS 112. Spring.

MAS 230. Finance & Practice Management. 4 Credits.
This course provides a foundation of the financial and additional administrative skills required in an ambulatory care facility. Students will gain knowledge and experience with both paper and electronic medical records. This course is designed to provide students with a clear understanding of scheduling and bookkeeping. The regulations of various medical insurances, including Medicare, Medicaid, and Workman’s Compensation will be presented. Students will learn and complete procedural and diagnostic coding and medical billing. There is a lab component to this course. The lab will consist or EHR exercises, medical coding case studies, and office simulations. Upon completion of this course, students will be able to function effectively within the administrative area of a medical facility. Prerequisite: MAS 105.

MAS 240. Medical Assisting Seminar. 2 Credits.
This course is designed to help students integrate knowledge from across the medical assisting curriculum in preparation for the Certified Medical Assistant (CMA) exam. Students will integrate and apply both administrative and clinical knowledge, theory and understanding from their previous course work in the medical assisting program. The HESI application from Elsevier will be used for
initial testing, individualized remediation for each student will be provided, and an exit exam will be conducted. They will be tested on their administrative, clinical and general medical knowledge. Areas that will be tested include: office and financial management, diagnostic and treatment services, pharmacology, and laboratory services, medical terminology, anatomy, physiology and healthcare law and ethics. Study and test taking techniques will be reviewed and practice sessions for the exam will be available. Registration is restricted to students who are preparing to take the CMA exam. Prerequisites: MAS 130, MAS 206, MAS 207, MAS 208, and MAS 230 successfully completed with a grade of C+ or better. Spring.

**MAS 250. Externship. 4 Credits.**
This externship will provide supervised placement in a non-classroom setting at a health-care facility, medical office or other appropriate site. This experience will enable the student to synthesize and apply concepts and skills learned in the Medical Assisting program. This externship consists of a minimum of 160 hours of unpaid, supervised experience at an approved clinical site of Mount Wachusett Community College. The experience is to be divided as 40 administrative hours and 120 clinical hours. This will allow the student to be involved in the total environment of a health care facility. In addition, there will be an online component to this experience. Enrollment requires permission of the MA program director, CORI/SORI check, up-to-date health requirements, and provider/professional level CPR. An appointment with the program director is required both before and after the externship. Prerequisites: MAS 105, MAS 120, MAS 206, MAS 207, MAS 208, MAS 230 successfully completed with a grade of C+ or better. Corequisite: MAS 240. Spring.

**MEDICAL LABORATORY TECHNOLOGY (MLT)**

**MLT 103. Introduction to Medical Laboratory Technology I (Formerly CLS103). 4 Credits.**
This introductory course provides students with the theory and laboratory skill that serve as the foundation for clinical coursework in the hospital laboratory. An overview of the role of the clinical laboratory scientist in health care in general and patient care in particular is emphasized. Basics of laboratory equipment, measurement, and lab math, along with use of information systems are covered. Learning and understanding of the quality assurance process and safety in the lab prepares the student for introduction to specialized departments within the laboratory. Students will be introduced to basic immunology, serology and the use of antigen/antibody reactions in the medical laboratory. In addition, a brief introductory survey of selected topics in hematology, clinical chemistry and immunohematology will be presented. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement; BIO 113 (preferred) or BIO 109; CHE 107 recommended. Fall.

**MLT 105. Introduction to Medical Laboratory Technology II (Formerly CLS105). 3 Credits.**
This introductory course expands on the student's knowledge gained in MLT 103, and concentrates on the analysis of selected body fluids and the proper collection of peripheral blood samples. The course covers the production of selected body fluids (e.g., urine, semen, synovial fluid and feces); their normal characteristics and pathological changes will be discussed within the practice of acceptable quality assurance. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented. Throughout this course, special emphasis is placed on the correlation of laboratory results with the patient's probable condition. The course also provides theory in phlebotomy and practical instruction in skills needed to obtain acceptable blood samples by venipuncture, capillary (dermal) puncture, or other techniques. Students will learn to safely and proficiently collect various types of blood specimen for laboratory analysis. NOTE: Students must pass both the UA/Body Fluids and Phlebotomy component with a grade of “C+” (77 percent) or better to maintain an acceptable performance level to progress in the pre-MLT program. If a student fails to achieve at least a “C+” (77 percent) in either UA/Body Fluids or Phlebotomy, their final grade for the course will be the lower of the two grades. THE STUDENT WILL NOT BE ALLOWED TO CONTINUE IN SEQUENCE TO MLT 106 OR PROGRESS TO THE MLT PROGRAM CLINICAL YEAR IF THEY FAIL TO ACHIEVE A “C+” (77 PERCENT) OR HIGHER IN ANY LABORATORY OR LECTURE (UA/BODY FLUIDS AND PHELBOTOMY) COMPONENT IN THE CURRICULUM. Prerequisites: MLT 103; BIO 204 recommended (or corequisite). Spring.

**MLT 106. Phlebotomy and Urinalysis Practicum for Pre-MLT Students. 1 Credit.**
This course provides practical experience (37.5 scheduled hours of urinalysis and drawing blood) for the student to apply the knowledge, attitudes, and skills of clinical laboratory practice in specimen collection, phlebotomy and urinalysis that were gained in MLT 105. This knowledge is integrated into the clinical laboratory through the practice of phlebotomy and urinalysis, utilizing appropriate resource management, communications, quality assurance, safety, and information systems. Placement by arrangement. Prerequisites: MLT 103 and MLT 105. Summer.

**MLT 220. Clinical Hematology and Hemostasis. 5 Credits.**
This course is designed to develop medical laboratory technician skills that will be used in the Hematology and Hemostasis laboratories in a hospital setting. The course details the formation, function, and morphology of the blood's normal cellular elements as well as the systems involved in coagulation and fibrinolysis. Students will apply their knowledge and skills using theoretical knowledge, principles and procedures of hematology and coagulation testing, identify sources of error, and relate clinical significance of laboratory results to human disease. Students will learn to correlate laboratory findings with the patient's clinical signs and
symptoms using case studies, homework and practical exams. Prerequisites: MLT 103, MLT 105, MLT 106, MAT 143, CHE 107, BIO 204 and BIO 205 with a C+ or higher. Fall.

**MLT 221. Clinical Practicum I - Hematology. 3 Credits.**
This course is the clinical practicum experience in Hematology and Hemostasis, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply the knowledge and skills using principles and procedures of hematology and coagulation testing, identifying sources of error and relate the clinical significance of results to human disease. Students are to be able to correlate a patient's laboratory findings with the patient's diagnosis or other laboratory results. The students must receive a passing grade (representing a C+ or higher) in order to progress through the program. Prerequisites: C+ or higher in MLT 220 and MLT 222. Fall.

**MLT 222. Clinical Immunohematology. 5 Credits.**
This course is designed to develop medical lab science skills in Immunohematology. Theoretical concepts underlying blood group biochemistry, genetics, and serology as they relate to blood donation and transfusion therapy practices are presented. An understanding of the role of both humoral and cellular immunity in disease and defense against disease is investigated as they relate to common immunoassays. Students will apply their knowledge and skills using principles and routine blood bank and serology procedures including donor selection, compatibility testing, detection and identification of antibodies, and component preparation and handling. Prerequisites: MLT 103, MLT 105, MLT 106, MAT 143, CHE 107, BIO 204 and BIO 205 with a C+ or higher. Fall.

**MLT 223. Clinical Practicum II - Immunohematology. 3 Credits.**
This course is the clinical practicum experience in Immunohematology, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using principles and routine blood bank and serology procedures including donor selection, compatibility testing, detection and identification of antibodies, and component preparation and handling. Prerequisites: C+ or better in MLT 220 and MLT 222. Fall.

**MLT 224. Clinical Microbiology. 5 Credits.**
This course is designed to introduce students to the role of microbes in the pathology of human infectious diseases. Students will apply their knowledge and skills using conventional microscopic, culture, and biochemical techniques to isolate, differentiate, identify, quantify, and determine the antimicrobial susceptibility of medically relevant pathogenic microorganisms. The course emphasizes bacteria, viruses, parasites, and fungi found in clinical specimens. Prerequisites: C+ or better in MLT 220, MLT 221, MLT 222, MLT 223. Spring.

**MLT 225. Clinical Practicum III - Microbiology. 3 Credits.**
This course is the clinical practicum experience in Microbiology, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using conventional microscopic, culture, and biochemical techniques to isolate, identify, quantify, differentiate, and determine the antimicrobial susceptibility of medically relevant microbial pathogens including bacteria, a few viruses, parasites, and fungi found in clinical specimens. Prerequisites: C+ or better in MLT 220 and MLT 226. Spring.

**MLT 226. Clinical Chemistry. 5 Credits.**
This course is designed to interrelate human disease with the biochemistry of human physiology and metabolism. In addition to learning the chemical principles underlying the laboratory procedures, students will understand the operating principles, sources of error, and routine maintenance of the instrumentation. Prerequisites: C+ or better in MLT 220, MLT 221, MLT 222, MLT 223. Spring.

**MLT 227. Clinical Practicum IV - Clinical Chemistry. 3 Credits.**
This course is the clinical practicum experience in Clinical Chemistry, which takes place in a local hospital. The practicum is scheduled as 3 weeks long, 5 days/week, 40 hours/week by arrangement with MLT clinical coordinator. Students will apply their knowledge and skills using principles and procedures of clinical chemistry to operate instrumentation that generates results used to detect various diseases. In addition to learning the chemical principles underlying the laboratory procedures, students will understand the operating principles, sources of error, and routine maintenance of the instrumentation. Prerequisite: C+ or better in both MLT 224 and MLT 226. Spring.

**MUSIC (MUS)**

**MUS 103. Music Skills And Theory I. 3 Credits.**
Designed for the non-musician, this course develops basic concepts of music theory with a strong emphasis on ear training and sight reading. Students move through a programmed text acquiring understanding of notation, rhythm, scales, key relationships, intervals, and simple chords. Prerequisite: None.
MUS 104. Music Skills And Theory II. 3 Credits.
A continuation of MUS 103 Music Skills and Theory, the course applies the concepts of theory to four-part harmony, melodic construction, and accompaniment. Prerequisite: MUS 103 or equivalent. Spring.

MUS 106. History Of Jazz. 3 Credits.
Students learn the fundamental elements of jazz music, the styles of jazz (New Orleans, pre-swing, swing, bebop, progressive jazz, cool jazz, etc.), and the impact of jazz personalities upon American life. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Offered occasionally.

MUS 110. Music Appreciation (Formerly MUS210). 3 Credits.
This course is designed for the non-music and music major alike. The goal of this course is to improve students' understanding and appreciation of all musical genres and elements. Prerequisite: none. Offered occasionally.

MUS 111. Voice I. 3 Credits.
This course is a continuation of MUS 111 Voice I with a strong emphasis on vocal performance. Exploration of vocal literature in multiple languages will give the student a strong repertoire for future use. Prerequisite: MUS 111 or permission of division dean.

MUS 112. Voice II. 3 Credits.
This course is designed for the advanced beginning guitarist. Students will receive guidance and direction in solving problems related to playing the guitar on a beginning level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, singing songs, rhythmic patterns, chord study, musical forms, improvisation and performing experiences. There will be readings on the history, techniques and aspects of performance of the guitar that students will reflect on in their journals and share with the class weekly. Students are expected to own a guitar or have unlimited access to a guitar for the entire semester. Prerequisite: RDG 096 or permission of Dean.

MUS 1140. Class Guitar I. 3 Credits.
This course is designed for the beginning guitarist or a guitarist that wants to learn to read music. Students will receive guidance and direction in solving problems related to playing the guitar on a beginning level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, singing songs, rhythmic patterns, chord study, musical forms, improvisation and performing experiences. There will be readings on the history, techniques and aspects of performance of the guitar that the student will reflect on in their journal and share with the class weekly. Students are expected to own a guitar or have unlimited access to a guitar for the entire semester. Prerequisite: MUS 140 with a grade of C or higher, or permission of Dean.

MUS 1141. Class Guitar II. 3 Credits.
This course is designed for the intermediate guitarist. Students will receive guidance and direction in solving problems related to playing the guitar on an intermediate level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, singing songs, rhythmic patterns, chord study, musical forms, improvisation and performing experiences. There will be readings on the history, techniques and aspects of performance of the guitar that students will reflect on in their journals and share with the class weekly. Students are expected to own a guitar or have unlimited access to a guitar for the entire semester. Prerequisite: MUS 140 with a grade of C or higher, or permission of Dean.

MUS 1142. Class Guitar III. 3 Credits.
This course is designed for the advanced guitarist. Students will receive guidance and direction in solving problems related to playing the guitar on an advanced level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, singing songs, rhythmic patterns, chord study, musical forms, improvisation and performing experiences. There will be readings on the history, techniques and aspects of performance of the guitar that the student will reflect on in their journal and share with the class weekly. Students are expected to own a guitar or have unlimited access to a guitar for the entire semester. Prerequisite: MUS 141 with a grade of C or higher, or permission of Dean.

MUS 1143. Class Guitar IV. 3 Credits.
This course is designed for the advanced guitarist. This course includes development of the skills necessary to become independent as a guitarist. This course emphasizes the development of style, articulation, dynamics, rhythmic ability and skills inherent to performance. Students will receive guidance and direction in solving problems related to playing the guitar on an advanced level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, rhythmic patterns, chord study, finger picking styles, musical forms, improvisation and performing experiences. A progression of technical proficiency is expected. There will be readings on the history, techniques and aspects of performance of the guitar that students will reflect on in their journal and share with the class weekly. Students are expected to own a guitar or have unlimited access to a guitar for the entire semester. Prerequisites: MUS 142 with a grade of C or higher, or permission of Dean.

MUS 160. History of Rock and Roll. 3 Credits.
This is a music course that presents the growth and diffusion of popular music and its surrounding culture from the 1930’s through the 1970’s. There will be a wide variety of topics pertinent to the understanding of rock music that will include among others, Blues, Country Blues, Rhythm and Blues, Country, Rockabilly, Doo Wop, Teen Idols, Girl Groups, Dance Craze, Surf, Soul, Motown,
British Invasion, Psychedelic Rock, Hard Rock, Punk, Heavy Metal, Jazz Rock and Art Rock. A historical approach will be used with special emphasis on important musical styles and influential artists as well as significant cultural issues. Basic elements of music will be covered throughout the semester to provide the listener with an objective context to understand and evaluate the musical styles and forms being discussed. Prerequisite: RDG 096 or permission of Dean.

**NATURAL RESOURCES (NRD)**

**NRD 220. Practicum In Natural Resources. 3-4 Credit.**
The practicum experience allows students practice in a field specific to their interest and based upon strengths of the curriculum. The practicum, developed and defined in cooperation with faculty, department chair, the student, and the practicum supervisor, requires a 10-15 hours per week commitment above and beyond other required coursework. The practicum experience will be monitored with regular progress updates and then detailed and summarized by the student at the conclusion with a written assignment demonstrating mastery and integration of previous NRD curriculum content. Possible practicum experiences may include, but are not limited to, working within one of the agricultural, environmental, nonprofit, or regional planning agencies, private industries, cities/towns, or educational institutions in the surrounding region. Prerequisites: Completion of at least 4 of the following courses: BIO 102, BIO 104, BIO 116, BIO 120, BIO 122, BIO 130, BIO 140, BIO 141, BIO 145, CHE 120, EAS 120, EAS 125, EAS 126, EAS 130, ENG 104, MGT 110.

**NURSING (NUR)**

**NUR 102. Fundamentals Of Practical Nursing. 11 Credits.**
This course provides an introduction to the role of the practical nurse in assisting to identify and meet the self-care needs of clients, patients and families/significant others. The framework for this course is in understanding nursing as an art and a science based on current evidence and best practices. Practical Nursing is modeled upon a professional body of knowledge that integrates concepts from the liberal arts, and the biological, physical, psychological and social sciences. Opportunities will be provided to learn and to begin to use various holistic theories to determine and implement appropriate nursing interventions. Content will include family theory and dynamics, diversity, communication skills, microbiology, nutrition, pharmacology, teaching and learning theory, problem-solving process, levels of prevention, legal-ethical nursing practice and caring behaviors. Students will have the opportunity to practice and learn skills in a classroom laboratory environment. Clinical experience will be provided in area hospitals, sub-acute units, or long-term care facilities. Students taking corequisite courses should plan to take BIO 152 and PSY 105 along with NUR 102 in the Spring, and PSY 110 and ENG 101 with NUR 104 in the summer. Prerequisites: MAT 126 or higher (not MAT 140) with a grade of C+ or higher; Corequisites: BIO 152 or BIO 203 and BIO 204 with a grade of C+ or higher; PSY 105, PSY 110, ENG 101 (or corequisites). Spring.

**NUR 104. Maternal Child Nursing. 9 Credits.**
This course focuses on the developmental self-care requisites, advocacy and health care management of culturally diverse individuals across the lifespan, primarily focused on maternal-child care and care of the pediatric patient. Content and skills developed in Fundamentals for Practical Nursing will be expanded to assist NUR 102 Fundamentals of Practical Nursing students to care for this client population. This course is divided into two components of nursing care needs: maternity and pediatrics. The clinical component of the course includes experiences in maternity and pediatric settings. Prerequisites: BIO 152, ENG 101 (or corequisite), NUR 102, PSY 105, PSY 110 (or corequisite). Summer.

**NUR 106. Contemporary Nursing for the Practical Nurse. 13 Credits.**
This final nursing course will assist the practical nursing student in learning to care for groups of adult patients, ranging from wellness management to those recovering from specific disorders or injury, including mental health issues to those individuals experiencing end of life issues. The course expands on previous learned information and introduces students to the principles of management within their scope of practice. Students employ the nursing process to deliver safe, comprehensive, individualized care in order to meet the self-care requisites of the assigned patient population. This course provides opportunities for clinical experiences in acute, sub-acute, and long-term care as well as outpatient and community based care. The goal of nursing care is to prevent illness, promote comfort, protect and restore health to unique individuals. Emphasis is placed on the expected role of the novice practical nurse in various health care settings. Prerequisites: NUR 104, ENG 101, PSY 110.

**NUR 111. Foundations Of Nursing. 7 Credits.**
This course introduces students to the concepts of nursing, healthcare, and the nursing process. Learning opportunities support student beginning level achievement of the MWCC Nursing Program Student Learning Outcomes. Emphasis is placed on Patient-Centered Care, Professionalism, Communication, Teamwork, Safety, and Evidence-Based Practice. Patient assessment, clinical reasoning, and basic nursing skills are developed through skills lab activities and clinical experiences in the long-term care setting. Prerequisites: MAT 143, Corequisites: BIO 203, ENG 101, PSY 105. Fall.
NUR 113. Nursing Care Of Children And Family. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in NUR 111, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to children and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of childhood health alterations, is emphasized as a crucial element of patient safety. Clinical experiences take place in a pediatric long-term care facility. Planning and delivering health education at a health fair for adolescents provides an opportunity to develop teamwork and communication skills. Service learning component. Prerequisite: NUR 111. Corequisites: NUR 220, BIO 204, BIO 205, PSY 110. Fall.

NUR 114. Nursing Care Of The Childbearing Family. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in NUR 111, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to the childbearing woman, her fetus/newborn and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of the childbearing cycle and newborn, is emphasized as a crucial element of patient safety. Clinical experiences take place in postpartum and nursery units, with observational experiences on the birthing unit as available. Prerequisite: NUR 111. Corequisites: NUR 113, BIO 204, BIO 205, PSY 110. Spring.

NUR 115. Family Centered Nursing Care. 4 Credits.
Building on the foundations-level achievement of the Nursing Program Student Learning Outcomes acquired in professional practice and NUR 116, this course provides the essential knowledge, skills and attitudes required to provide safe and effective nursing care to the childbearing woman, her fetus/newborn, children and their families. Attention is focused on the continued development of assessment skills and use of the nursing process to identify patient problems, create an evidence-based plan of action, and evaluate patient care outcomes. The collaborative problem, which addresses potential complications of childhood health alterations and the childbearing cycle, is emphasized as a crucial element of patient safety. Clinical experiences take place in a pediatric long-term care facility, postpartum and nursery units, with observational experiences on the birthing unit as available. Prerequisite: NUR 116. Summer.

NUR 116. LPN to RN Transitions. 4 Credits.
This hybrid course assists with the transition from the role of the LPN to the RN roles of provider of care, manager of care, and member within the discipline of nursing as an associate degree nurse. Emphasis is placed on the concepts of clinical competence and critical thinking in the planning and documentation of care for clients in a variety of health settings. Learning experiences are provided through independent study and simulation in the campus nursing lab setting. Prerequisites: BIO 203, BIO 204 (or corequisite), BIO 205 (or corequisite), ENG 101, NUR 111, PSY 105, PSY 110 (or corequisite). Spring.

NUR 204. Trends In Nursing. 3 Credits.
This course facilitates the transition from nursing education to practice. A historical perspective is presented to encourage students to understand the influence of nursing history on contemporary practice. Content is structured such that current issues in nursing are discussed. Students participate in small group projects or discussion board topics on selected issues as they relate to nursing. This activity is designed to synthesize the ten nursing Program Student Learning Outcomes: patient-centered care, professionalism, leadership, systems-based practice, informatics and technology, communication, teamwork and collaboration, safety, quality improvement and evidence-based practice. Concepts basic to the performance of entry level nursing are explored. Concepts can include role transition, employment consideration, the healthcare delivery system, leadership/management, delegation, conflict management, time management, advocacy, political action, ethical/legal principles, quality patient care, nursing informatics and research, workplace issues, and/or emergency preparedness. Service learning with class presentation is a required component. Prerequisites: ENG 102, NUR 220, NUR 230, SOC 103. Corequisites: NUR 222, Humanities Elective. Spring.

NUR 220. Medical Surgical Nursing, Part I. 6 Credits.
Medical-Surgical Nursing Part I focuses on the nursing care of patients with common recurring health problems. The organizing structure is based on human needs, the nursing process, the life cycle, and the three interrelated roles of provider of care, manager of care, and member within the discipline of nursing. The health problems discussed include fluid and electrolyte imbalances, care of the patient in the perioperative setting, musculoskeletal, respiratory, cardiovascular, and endocrine dysfunction. Emphasis is placed on continuing care needs of individual patients, implications of aging, and acute care skills. Concomitant clinical experiences are selected to enable the student to develop the knowledge, skill, and attitude required to provide the nursing care needed by individual patients. Prerequisites: BIO 204, BIO 205; ENG 102 (or corequisite); NUR 113 and NUR 114 or NUR 115 and NUR 116; NUR 230 (corequisite); PSY 110; SOC 103 (or corequisite). Fall.

NUR 222. Medical-Surgical Nursing Part II. 9 Credits.
This course focuses on the nursing care of groups of patients experiencing common recurring health problems. The organizing structure is based on human needs, the nursing process, life cycle and the three interrelated roles of provider of care, manager of
care, and member within the discipline of nursing. Life cycle concepts are reinforced as important considerations in planning patient care. The health problems discussed include gastrointestinal, neurological, hematology/oncology, renal, reproductive, integumentary, and sensory dysfunction. Emphasis is placed on developing skill in managing the care of more than one patient, participating in the planning for the continuing care needs of patients in the acute care setting, and the refinement of nursing skills. Concomitant clinical experiences are selected to enable the student to develop the knowledge, skill and attitude required to provide the nursing care needed by groups of patients. Prerequisites: ENG 102; NUR 204 (corequisite), NUR 220, NUR 230; SOC 103; humanities elective (or corequisite). Spring.

NUR 230. Psychiatric Nursing. 4 Credits.
This course focuses on the application of the nursing process to the care of clients who are experiencing mental health problems. Students are introduced to concepts of psychiatric mental health nursing, including principles of pathophysiology, psychopharmacology, and therapeutic communication. Clinical experiences allow students to apply these concepts in the care of clients with varying mental health problems. Emphasis is placed on the applicability of psychiatric nursing principles to the care of clients regardless of the setting or medical diagnosis. Prerequisites: BIO 204, BIO 205; NUR 113 and NUR 114 or NUR 115 and NUR 116; PSY 110. Corequisites: ENG 102, NUR 220, SOC 103. Fall.

PHILOSOPHY (PHL)

PHL 110. Logic. 3 Credits.
The overall aim of this class is for each student to grasp the relationship of language to logic. Subject matter includes the nature of critical thinking; the structure of definitions; the structure of arguments; the difference between valid and invalid, or strong and weak reasoning; methods for analyzing and evaluating arguments; common argumentative fallacies; basic symbolic logic. Practical consideration is given to overcoming thinking errors; developing ethical thought; applying effective critical thinking skills to local, national, and global issues. Prerequisites: ENG 101 (or co-requisite).

PHL 180. World Philosophy. 3 Credits.
This class introduces the world’s non-European philosophical traditions. It offers the student an overview of unfamiliar philosophical texts and the opportunity to explore the non-European philosophical terrain. The focus of the class will be on students reflecting on their own philosophical beliefs and worldviews informed by the fullness of these global traditions. Topics include Chinese philosophy, Indian philosophy, Buddhist philosophy, East Asian philosophy, African philosophy, South American Philosophy, and recent trends in global philosophy. Prerequisite: ENG 101 (corequisite).

PHL 201. Introduction To Philosophical Issues. 3 Credits.
This is an introduction to the nature and practice of philosophical reflection on such questions as the meaning of awareness in defining self, the nature of reality, the problem of knowledge, the development of moral standards, the existence of God, and people's place in the universe. Emphasis is on discussion of case studies dealing with such issues as "How do we come to know the real world?", "What makes an action right or wrong?", "Are we a spirit within a body or a body within a spirit?", and "Do we have free will, or are all our actions determined?" Readings include historical and modern selections in philosophy and literature from both Western and Eastern traditions. Prerequisites: ENG 098, FYE 101 RDG 098, or placement.

PHL 209. Symbolic Logic. 3 Credits.
This course is an introduction to symbolic logic. The emphasis of the course will be on problem-solving. We will first study truth-functional, propositional logic and then move on to quantification logic. Topics will include: (1) symbolization from English to a formal symbolic language; (2) relevant distinctions between the syntax and semantics of that language; and (3) truth-tables, derivations and proofs. Prerequisites: MAT 092 (or placement); ENG 101.

PHL 210. Levels Of Being. 3 Credits.
This introduction to metaphysics will investigate the nature of reality and our relationship to it. Questions asked will include: What are the most general features of the world? Does life have a purpose? Does God exist? Do we have free will? Is there a spiritual or supernatural dimension of reality and the self? Do we have souls that could survive death? Is there such a thing as objective value, or a distinction between objective right and wrong? What is time and space? How do objects and persons endure change? Is all that is real ultimately physical? The focus of the class will be on students learning how to formulate, defend, and respond to objections to their own answers to these basic questions. Readings will draw from western and non-western worldviews and philosophies. Prerequisite: ENG 101. Spring.

PHL 220. Introduction to Social and Political Philosophy. 3 Credits.
Social and political philosophy is concerned with basic questions about community, public life, and social organization. This course will address issues such as the rights of the individual in relation to the power of the state and society; the nature and legitimacy of political authority and democracy; the significance of power, economics, justice and equality in social life; and the duties and responsibilities of citizens. We will also consider the philosophical meanings of liberalism, republicanism, individualism, capitalism,
PHI 235. The Philosophy of Nature, Science, and Mathematics. 3 Credits.
This course is meant to introduce the student to three interrelated areas of Philosophy: the Philosophy of Science, the Philosophy of Mathematics, and Environmental Ethics. The overall aim is to investigate the relationship between humanity and nature. This investigation focuses on three major themes: (1) how humans define, think, model, and interpret nature, (2) how humans relate to, interact with, and fit into the natural world, and (3) how humans change nature. The course will include the following topics: (a) historical paradigm shifts in science, and the methodological consequences of these shifts; (b) the formal languages of the sciences and the different interpretations of these languages; (c) the ethical and environmental issues arising from the success of scientific understanding; (d) the critical assessment of new paradigms that might better explain the relationship between humanity and nature. Offered occasionally. Prerequisites: ENG 101.

PHL 250. Ethics. 3 Credits.
Introduction to philosophy through consideration of classic and contemporary theories of morality and the best life. Topics may include the concepts of freedom, happiness, justice, dignity, virtue, right/wrong, good/bad, alienation, loneliness, obligation, responsibility, rights and duties, as well as the structure of morality. Readings include selections in philosophy from both Western and Eastern traditions. Special attention is given to the fundamentals of critical analysis. Prerequisite: ENG 101.

PHLEBOTOMY (PLB)
PLB 101. Introduction To Phlebotomy. 3 Credits.
Introduction to Phlebotomy provides theory in phlebotomy and practical instruction in skills needed to obtain acceptable blood samples by venipuncture, capillary (dermal) puncture, or other techniques. Students will become aware of the typical departments within a clinical laboratory environment, the collection and transportation requirements of most possible clinical specimens, infection control and safety requirements (including biohazard awareness), point of care testing, quality management, legal and ethical issues, cultural diversity, medical terminology, regulatory requirements, and professionalism. Criminal Offender Records Information/Sexual Offender Records Information (CORI/SORI) checks are necessary for enrolled students. Students must have proof of immunizations, a physical examination, and liability insurance. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

PLB 203. Phlebotomy Clinical Practicum. 4 Credits.
This course is intended for students pursuing a career in the field of phlebotomy. Students are provided with the required clinical instruction to be eligible to take a phlebotomy certification exam. Students are required to complete 120 hours (completed within a specific amount of time), 100 venipunctures, and 25 capillary (dermal) punctures. After successful completion of this clinical course, students will be eligible for employment in the field of phlebotomy. Clinical site to be assigned by the instructor. Space is limited. Criminal Offender Records Information/Sexual Offender Records Information (CORI/SORI) checks are necessary for enrolled students. Students must have proof of immunizations, a physical examination, and liability insurance. A $150 fee will be assessed. Prerequisite: PLB 101.

PHOTOGRAPHY (PHO)
PHO 115. Introduction To Digital Photography. 3 Credits.
This introductory course covers the technical and artistic aspects of capturing and editing digital images. Students will learn how to create artistic images for print and electronic distribution. Emphasis is placed on the camera and how to use it, lighting, electronic capture and manipulation techniques, and photographic composition. Basic computer skills are required: Ability to use a computer operating system and follow basic procedures including keyboarding/mouse skills, as well as system commands such as working with directories/folders, and opening/closing applications. PHO and MRTP students must earn a C or better in the course. Prerequisites: ENG 098, RDG 098 or placement.

PHO 215. Advanced Digital Photography. 3 Credits.
This course is designed to go beyond the basic skills learned in PHO 115 Intro to Digital Photography. It is designed to allow students to reach a new level of artistic achievement. Students will learn to maximize the strengths and minimize the weaknesses of this medium. The course incorporates use of the latest tools and techniques of digital capture and manipulation. It also uses some traditional film techniques that are modified slightly to apply to a digital environment. A fully adjustable digital camera is required. Point and shoot cameras, and cell phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Prerequisite: PHO 115.

PHO 240. Portrait Photography. 3 Credits.
The art of photographing people is explored. Lighting, posing, and composition are covered. Various styles of portraiture are introduced. These include corporate portraits, casual and personality portraits, and wedding portraits; as well as more avant-garde styles such as film noire. Studio, location, and natural lighting will be used. Color balancing and facial retouching will be covered. A
fully adjustable digital camera is required. Point and shoot cameras, and cell phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Fall.

PHO 245. Commercial Photography. 3 Credits.
Some of the world's most artistic photos are made for the purpose of advertising. This exciting area of photography will be explored. In addition to small product and catalogue photography, this course explores the more complex and creative photographs used for various publication covers, web and magazine ads, and trade show displays. Advanced digital editing and manipulation will be discussed. Estimating and billing will also be covered. A fully adjustable digital camera is required. Point and shoot cameras, and cell phones are not suitable photographic instruments for this course. A tripod is strongly recommended. PHO and MRTP students must earn a C or better in the course. Prerequisite: PHO 115. Spring.

PHYSICAL EDUCATION (PER)

PER 126. Fitness And Wellness. 2 Credits.
This course is an introduction to physical fitness and wellness designed to acquaint students with basic knowledge, understanding, and value of physical activity as it relates to optimal healthful living. The course includes fitness evaluation and wellness assessment with pretest of cardiovascular efficiency, muscular strength endurance, flexibility, skills, body composition, diet, and weight control. Students cannot receive academic credit for both PER 126 and PER 130. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

PER 127. Weight Management through Walking and Resistance Training. 2 Credits.
This course is designed as a fitness activity aimed at those students who want to acquire and use the knowledge for lifelong weight control. There will be an emphasis on aerobic walking to burn calories and resistance training to raise percentage of lean body weight. Each student will develop personal goals and objectives. Prerequisites: FYE 101, RDG 098, or placement.

PER 130. Health, Fitness, And Wellness. 3 Credits.
This course is an introduction to healthy lifestyles and fitness. It is designed to acquaint students with a knowledge, understanding, and value of physical activity, nutrition and weight management, preventing diseases, and wellness management for optimal healthful living. Two and one half hours lecture and one and a quarter hour exercise lab. Includes fitness and wellness evaluations. Students cannot receive academic credit for both PER 126 and PER 130. Prerequisites: FYE 101, MAT 092, RDG 098, or placement.

PHYSICAL THERAPIST ASSISTANT (PTA)

PTA 103. Introduction to Physical Therapist Assisting. 4 Credits.
This course is designed to provide the student with an introduction to Basic Patient Care Skills: Preparation for Patient Care, Aseptic Techniques, Turning & Positioning, Wheelchairs, Vital Signs & Anthropometrics, Transfer Activities, Gait Training with Ambulatory Assistive Devices, and Introduction to Documentation, the Medical Record and Clinical Communication. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098 or placement; Enrollment in PTA; Corequisites: BIO 152, PTA 120. Fall.

PTA 104. Applied Anatomy And Kinesiology. 4 Credits.
Identification and detailed palpation of the bones and muscles of the human skeleton will be correlated with joint and muscle function. Introductory concepts concerning tissue organization, basic biomechanics, and the nervous system will be studied. Basic concepts of musculoskeletal structure and function will be applied to a more complex analysis of human movement and skill. Prerequisite: BIO 203 (or corequisite) with a C+ or better. Fall.

PTA 111. Clinical Orthopedics for the PTA. 10 Credits.
This course covers the assessment and treatment strategies that are applicable to orthopedic and pulmonary patients that are part of entry-level practice as a PTA. Normal and pathomechanics of the neuromusculoskeletal and respiratory systems are covered in detail. Etiology and physical therapy management of clinical dysfunctions commonly encountered in a general orthopedic and pulmonary patient population will be studied. Normal and pathological gait will be analyzed. The assessment skills of auscultation, goniometry, manual muscle testing, and tests for muscle length including instructor demonstrations of special tests for the spine and extremities will be covered in the laboratory component of this course. Assessment of residual limb, stump wrapping skills, gait training, and prosthetic fit/management are included. This course also presents the theory and application of traditional therapeutic exercise including ROM, stretching, resistive exercise, balance and coordination and cardiovascular/aerobic activity. Evidence-based practice guidelines regarding traditional exercise suggestions for selected neuromusculoskeletal and pulmonary diagnoses and home exercise program instruction will also be covered. Prerequisite: Enrollment in PTA; PTA 103, PTA 104, BIO 152 with a "C+" or better. Spring.

PTA 112. Therapeutic Modalities. 4 Credits.
This course is designed to present the physiological basis, clinical application and specific techniques of administration for the following modalities: infrared heating and cooling, ultraviolet light, deep heating, intermittent compression, mechanical traction, electrical stimulation for analgesia, muscle contraction and specialized currents, iontophoresis, biofeedback, and LASER. Emphasis
will be placed on the indications and precautions and contraindications of each to assure patient safety and treatment effectiveness. Prerequisite: PTA 110. Fall.

PTA 113. Advanced Rehabilitation Techniques. 3 Credits.
This course presents an advanced view of rehabilitation. Specific patient populations and techniques associated with the treatment of these populations will be addressed. Topics include but will not be limited to pathological gait, cardiac rehabilitation, advanced soft tissue approaches to the spine and extremities, an introduction to extremity joint mobilization (non-laboratory), aquatics and geriatrics. A problem based oriented approach using specific case studies representing targeted patient population will be utilized. An evidence-based practice research project is required. Prerequisite: PTA 110. Fall.

PTA 114. Neurophysiological Techniques. 4 Credits.
This course presents the theoretical framework of neurodevelopmental and neurophysiological approaches to therapeutic exercise. Normal movement, motor development, and motor learning are emphasized. Sensimotor dysfunctions, characteristic limitations, and abnormal motor movements are discussed. The basic approaches to neurophysiological techniques and their rationale are included. These traditional approaches will be compared to contemporary theories of motor development, motor learning, and motor control. Prerequisite: PTA 110. Fall.

PTA 116. Clinical Practicum II. 5 Credits.
This is the second of three comprehensive clinical experiences in a physical therapy setting. The purpose of this intermediate experience is to apply, integrate, and perform learned clinical skills on patients under the supervision of a licensed physical therapist and/or licensed physical therapist assistant. The emphasis of this experience is to integrate previously learned and practiced PTA skills, therapeutic modalities, advanced therapeutic techniques, and neurophysiological techniques into an established physical therapy program. Typical practice settings may include acute care hospitals, private practice, sports developmental centers, skilled nursing centers, geriatrics, pediatrics, VNA, inpatient rehabilitation centers, VA hospitals, and psychiatric centers. Prerequisites: PTA 112, PTA 113, PTA 114. Spring.

PTA 118. Clinical Management And Healthcare Issues. 1 Credit.
Key non-patient care-related topics are presented concerning issues of importance to the physical therapist assistant. Course topics include PTA licensure, job search (cover letter, resume writing, and interviewing), the ADA, insurance regulations, supervision/delegation issues for the PTA, quality assurance, and risk management. Prerequisites: PTA 112, PTA 113, PTA 114. Spring.

PTA 119. Clinical Practicum III. 5 Credits.
This course is the third of three comprehensive clinical experiences in a physical therapy setting. The purpose of this final experience is to apply, integrate, and perform learned clinical skills on patients under the supervision of a licensed physical therapist and/or licensed physical therapist assistant. The emphasis of this experience is to integrate previously learned and practiced PTA skills, special topics, and clinical management and health care issues into the delivery of a comprehensive physical therapy treatment program. Typical practice settings may include acute care hospitals, private practice, sports developmental centers, skilled nursing centers, geriatrics, pediatrics, VNA, inpatient and outpatient rehabilitation centers, VA hospitals, and psychiatric centers. Prerequisites: PTA 116, PTA 117, PTA 118. Spring.

PTA 120. Integrated Clinical Experience I. 2 Credits.
This integrated clinical experience (ICE) provides students the opportunity for clinical observations and to enhance skill acquisition of the techniques learned in PTA 103 and PTA 104. The students will be exposed to early patient interaction, physical therapy professionals, and other healthcare professionals. Classroom activities will require student self-reflection on clinical and professional skills. Additional classroom topics include an introduction to Evidenced-Based PT Practice, Ethics and Professionalism, PTA Licensure, Cultural Sensitivity, the APTA and Stress Management. Prerequisites: Enrollment in PTA; RDG 098, MAT 092, ENG 098, FYE 101, or placement; Corequisites: BIO 152, PTA 103, PTA 104. Fall.

PTA 121. Integrated Clinical Experience II. 1 Credit.
This integrated clinical experience (ICE) provides students the opportunity for clinical observations and to enhance skill acquisition of the techniques learned in PTA 111 and PTA 139. The students will be exposed to early patient interaction, physical therapy professionals, and other healthcare professionals. Classroom activities will require student self-reflection on clinical and professional skills. Prerequisites: Enrollment in PTA; BIO 152, PTA 103, PTA 104, PTA 120. Corequisites: PTA 111, PTA 139. Spring.

PTA 139. Human Disease And Pathology. 4 Credits.
This course will cover the etiology, natural course, and termination of disease in order to assist the student in understanding the cause and effect relationship between disease and disability. Emphasis will be placed on the most common diseases and disabilities which the student will likely encounter in the practice of physical therapy and/or massage therapy. Prerequisites: BIO 203 and BIO 204 (or corequisite). Spring.

PHYSICS (PHY)
PHY 101. Introduction To Physical Science. 4 Credits.
This course will provide the non-science major with a basic background in physics and chemistry that affects everyone's life. Fundamental concepts of force, motion, energy, and chemistry are covered. Laboratory work complements the classroom presentation. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

PHY 105. College Physics I. 4 Credits.
This course is designed to give students an appreciation of the progress that has been made in understanding the basic nature of the universe. Topics considered include vectors, statics, force and motion, kinematics in one and two dimensions, dynamics, work and energy, impulse and momentum, and conservation of energy. Lab work is correlated with class discussions. Prerequisites: ENG 098, FYE 101, MAT 162 (or corequisite), RDG 098, or placement.

PHY 106. College Physics II. 4 Credits.
This course is a continuation of PHY 105. Topics to be covered include rotation, elasticity, fluid mechanics, temperature and heat transfer, electricity and electric circuits, waves and acoustic phenomena. Lab work is correlated with class discussions. Prerequisite: PHY 105. Spring.

PHY 120. Physics for Engineering and Science I. 4 Credits.
A calculus based course in the concepts and principles of mechanics, and fluids. This course is intended to serve students who plan to major in science or engineering at the four year college level. Laboratory work is correlated to the class presentation. Prerequisite: ENG 101, MAT 211 (or co-requisites).

PHY 121. Physics for Engineering and Science II. 4 Credits.
This course is designed to provide the student with a clear and logical presentation of the basic concepts and principles of physics, to strengthen an understanding of the concepts and principles through a broad range of interesting real-world applications, and to develop strong problem solving skills through an effectively organized approach. Topics considered include the principles of simple harmonic motion, wave motion, sound, geometric optics, wave nature of light, charge, coulomb force, electric field and flux, Gauss' law, electric potential, voltage, resistance, current, DC circuits, Kirchhoff's Laws, capacitance, RC time constant, magnetic field and flux, Faraday's Law, Lens' Law, Ampere's Law, Electromagnetic induction, electromagnetic waves, and Maxwell's equations. This course is intended to serve students who plan to major in science or engineering at the four-year college level. Laboratory work is correlated to the classroom presentations. Prerequisite: MAT 212 (or corequisite), PHY 120. Spring.

POLITICAL SCIENCE (POL)

POL 205. American National Government. 3 Credits.
This course will focus on American government by analyzing how the government attained the power it has today by examining the theories and principles that underlie the American system of governance. It will analyze the Federalist Papers, the Constitution, the necessity of checks and balances, the concept of federalism, American political parties, campaigns, elections, interest groups, the judiciary, and the media. In order to understand how government works, the course will look at social welfare issues, civil liberties, common political culture, the impact of social cleavages on policy, and who participates in the democratic process. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

POL 210. American International Relations. 3 Credits.
The impact of United States foreign policy decisions on political, economic, and military environments is discussed. Special emphasis is placed on defining and safeguarding the national interest in a rapidly changing world. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

POL 211. Introduction to American Government and Politics. 3 Credits.
This course examines the structure of the national government including the major political institutions of the Presidency, the Congress and the Judiciary. Theory and function of the interaction between these institutions and their constitutional origins and scope will be analyzed. This course will examine the jurisdiction and interplay of both the Federal and State governmental authority under our American system of Federalism. The political process, elections and political party involvement in the function and form of our constitutional government on the federal, state and local level will be examined. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

POL 250. Political Thought In America. 3 Credits.
Students survey significant ideas in America's political culture from colonial times to the present. Figures to be discussed include John Winthrop, Roger Williams, John Adams, Thomas Jefferson, Daniel Webster, Abraham Lincoln, Theodore Roosevelt, Woodrow Wilson, Franklin D. Roosevelt, and Oliver W. Holmes, Jr. Prerequisite: permission of division dean. Spring.

PSYCHOLOGY (PSY)
PSY 101. Psychology Of Self. 3 Credits.
By applying behavior principles to everyday human activities, students achieve insight into the way individuals operate in their environment. By exploring psychological theory as it relates to self-assessment and personal growth, students gain extensive understanding of his or her values, interests, behaviors, motivations, abilities, personality, and communication skills. Students will also investigate various career/interest assessments which will help in making career and life decisions. The classroom is used as a laboratory, with workshops, discussion groups, and simulations of various social relationships and interactions to enhance the student's self-understanding. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

PSY 102. Breathwork Techniques: Building a Healthier Immune System, and Coping with Stress. 3 Credits.
This course provides knowledge and demonstration of how-to breath purposefully, reducing stress, anxiety, and freeing past “stuck” energy through proper diaphragmatic breathing. Breathwork has been proven to reduce negative mental and physical issues and actually heal the body and mind. Breathing properly allows awareness of your physical body, energetic body, and emotional body. Stress reduction techniques will be connected to breathwork. Mindfulness will be explored and connected to the breath with coherent breathing and guided imagery. Various breathing techniques will be taught and practiced for assisting relief of pain held in the body. The history of breathwork will be reviewed; as well as it being an evidence-based technique including knowledge of biological science, psychology and holistic health fields. Review of literature on how breathwork is currently being used in all fields of health professions; medical, psychological, substance abuse, and holistic. To be taught by a Certified Breathwork Practitioner only. General Elective for all MWCC College Degree Programs, and a Professional Elective for HS Majors. Prerequisite: ENG 098, FYE 101, RDG 098, or placement. Spring.

PSY 105. Introduction To Psychology. 3 Credits.
Students are introduced to the basic concepts and methods of psychology. Course content surveys scientific methods, the brain and nervous system, sensation and perception, consciousness, learning and memory, personality, psychological disorders, and treatment. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

PSY 108. Child Development. 3 Credits.
This course focuses on the development of the young child from the time of conception through prenatal development, infancy, early childhood, and the school years up to adolescence. Emphasis is placed on studying the "whole child" by addressing physical/motor, psychosocial, sociocultural, cognitive, and language aspects of development. Current theories of child development based on research will be presented, as well as strategies for incorporating theory into practice. Students will develop an understanding of how to facilitate the development of the child. The students are required to observe a young child throughout the semester and complete a child study. ECC and ECT students must earn a C or better in the course. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

PSY 110. Human Growth And Development. 3 Credits.
This course focuses on lifespan development through an examination of the biological, cognitive, and social domains and their interdependency. Students will study developmental changes from conception to late adulthood and will gain an understanding of how current research theories of human development translate into practice. Prerequisite: PSY 105.

PSY 143. Group Dynamics. 3 Credits.
This course introduces students to the basic techniques, concepts and theories of group dynamics through instructional and experiential learning opportunities. Emphasis is placed on developing self-awareness by interacting with others as a member of a functioning group where students practice developing skills through classroom exercises and observations. Course content includes ethical and consideration within the group setting. Multicultural proficiency in the working group setting, stages of group development, socialization, structure, comparisons of individual and group performance, problem solving, decision-making, conformity, norms, cohesiveness, communication and leadership. Prerequisites: ENG 101. Spring.

PSY 240. Abnormal Psychology. 3 Credits.
Students study the symptoms, causes, treatments, and prognoses of behaviors categorized as "abnormal." Topics include: historical perspectives on abnormal behavior; the emotional; social, psychotic, and organic disorders; and treatment. Abnormal behavioral patterns are discussed in theory and illustrated by case example. Prerequisite: PSY 105.

PSY 244. Children With Special Needs. 3 Credits.
This course explores ways of understanding the strengths and needs of children with differing abilities. Emphasis will be on combining information about specific disability categories with evidence based practices for instruction and behavioral support. This course covers evolving social/cultural dimensions of disability as well as legislation and policies supportive of children with special needs and their families. Students are required to observe special needs children in an educational setting. ECC and ECT students must earn a C or better in the course. Prerequisites: PSY 108 or PSY 110.

PSY 246. Psychology And The Law. 3 Credits.
This course examines the role of the forensic psychologist in the criminal justice system as well as the personality traits, thoughts, and action patterns of the criminal mind. Using research in the field of forensic psychology and case histories, students will gain an understanding of the characteristics commonly identified in individuals who engage in a criminal lifestyle. They will also be able to
identify common patterns of behavior that allow one to develop a profile of individuals who have committed certain types of crime (rapists, murderers, mass killers, etc.). Other areas of discussion include eyewitness testimony, jury selection, competency to stand trial, and battered wife syndrome. Prerequisite: PSY 105.

**PSY 280. Psychology Of Death And Dying. 3 Credits.**
Students examine the experience of dying from psychological, sociological, and historical perspectives. Topics include: the issues of loss and the grieving process; the research of Elizabeth Kubler-Ross; terminal illness and the hospice concept; the funeral process and bereavement; life after life experiences; and the philosophical meaning of life and death. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**PSY 290. The Psychology Of Aging. 3 Credits.**
Students will examine older adults from a developmental and interdisciplinary perspective. Such a view allows students to understand the psychology of aging through an analysis of biological, cognitive, and sociocultural contexts. Detailed attention will be given to the areas of cognition, emotional adjustment, intelligence, creativity, wisdom, motivation, perception, psychopathology, learning, and memory. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring.

**READING (RDG)**

**RDG 096. Fundamentals of Reading I. 3 Credits.**
This course is designed to develop the basic reading skills required for success in RDG 098 Fundamentals of Reading II. Students will be assessed regularly, and coursework is structured to meet individual needs. Emphasis is on vocabulary enrichment, use of context and review of basic grammatical features. Using methods, materials, and software appropriate for college students, this course builds a solid foundation of reading comprehension. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE.

**RDG 098. Fundamentals of Reading II. 3 Credits.**
This course is designed to help students develop reading skills necessary to successfully complete college reading assignments. Stress is placed on increasing comprehension through further vocabulary enhancement and critical thinking skills. Reading materials include college text excerpts, essays, newspaper articles, short stories, and a novel. Students will also make use of reading software. Institutional credit only. Courses that earn institutional credit do not apply towards graduation. A GRADE OF “C” OR HIGHER IS REQUIRED FOR ADVANCEMENT TO NEXT COURSE. Prerequisite: RDG 096 or placement. Corequisite: FYE 101.

**SOCIOLOGY (SOC)**

**SOC 103. Introduction To Sociology. 3 Credits.**
Students are introduced to the scientific study of society through basic sociological concepts. Concepts covered will include culture, socialization, social statuses and roles, social inequalities (race, class, gender and age), social institutions (such as family, education, religion, economy, government, politics, media and health), deviance, and social change. In order to create global awareness, students will develop critical thinking skills by making connections between their own lives and the broader social community. Students will be introduced to theoretical perspectives of sociology and use these theories to examine the various topics. Students will also examine and explain systems of stratification; and critically apply the concepts discussed to issues in their lives and the world. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

**SOC 125. Gender Issues. 3 Credits.**
This course examines the social forces that influence the lives of men and women. One theme is that gender is a social formation. A second theme is that race and class relations intersect with gender relations to produce difference and inequality. Issues covered in this class will include gender identity, sexuality, body image, work, and intimate relationships. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

**SOC 129. Drug Use And Abuse In American Society. 3 Credits.**
This course offers a sociological analysis of the drug problem in the United States and the consequences of drug addiction to individuals and society. It includes a factual exploration of selected drug types, reasons for use, drug laws, and drug treatment programs. Prerequisite: SOC 103 (or corequisite).

**SOC 150. Cultural Awareness. 3 Credits.**
This course focuses on understanding cultural differences. Students will examine their own culture and other cultures. Students will examine how racism, prejudice, and discrimination are embedded in all levels of society. Students will understand that race and ethnicity are historically, culturally, and socially bound and constructed. Students will examine the privileges that accompany whiteness. Students will examine intersectional research approaches that examine marginalized groups and explore race, ethnicity, gender, age and sexuality and how they are interconnected. This is the same course as HST 150. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.
SOC 204. Sociology of the African American. 3 Credits.
This course is a sociological analysis of African-American society in the United States. Key social institutions will be examined: media, schools, family, political, economic, religious, and legal as related to the criminal justice system on micro and macro levels, as they pertain to African-Americans. This course will examine the sociological point of view of African Americans from slavery through current events. Prerequisites: ENG 101, SOC 103. Spring.

SOC 205. Social Problems. 3 Credits.
Students are exposed to major problem areas such as crime and delinquency, poverty, racial bias, family, and education issues by evaluating their magnitude, their development, and society's attempts to alleviate the problems. Students will cultivate an understanding of basic sociological concepts and methods for studying social problems. Students will build an understanding of various persistent and widespread social problems in contemporary American society. Students will evaluate the effectiveness of existing social policies intended to address social problems. Students will investigate the impact social problems have on individuals and groups by utilizing intersectional analysis. Prerequisite: SOC 103. Spring.

SOC 206. Marriage And The Family. 3 Credits.
This course examines how families are constructed and the relationship between families and larger social forces. Students will explore the range of forms families take, ideologies surrounding the family, violence within families and the ways that paid work, unpaid work and government policies shape families. Students will examine the socially constructed nature and diversity of family structures, rights, and rituals across time and cultures. Students will analyze how race, ethnicity, class, sexual orientation, and age each contribute (separately or intersectionally) to family life. Students will examine the impact social forces and policy changes have on families. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

SOC 208. Juvenile Delinquency. 3 Credits.
This course presents an overview of the nature of the adolescent offender and the juvenile justice system. Students will study various theories of delinquent behavior, social forces that affect delinquency, the origins and philosophy of the juvenile justice system, and current methods of preventing and treating delinquency. Prerequisite: SOC 103. Fall.

SOC 210. Child Abuse And Neglect In American Society. 3 Credits.
Students investigate the growing problem of child abuse and neglect in American society. Psychodynamic and sociocultural factors that contribute to child abuse will be considered with an emphasis on prevention, reporting of abuse cases, intervention, and treatment. Prerequisite: SOC 103. Spring.

SOC 212. Victimology. 3 Credits.
This course presents an overview of the emerging field of victimology and the scientific study of crime victims. It looks at the extent of victimization, demographic patterns influencing the likelihood of victimization, and the social and psychological effects of being a crime victim. Special categories are examined, including victims of family violence, the elderly, sexual assault victims, child victims, homicide victims and their survivors, victims of hate crimes, and victims of terrorism. The course also covers the legal rights of victims, their treatment within the criminal justice system, and the range of civil remedies and social service programs available to victims, both nationally and in Massachusetts. Prerequisite: SOC 103. Fall.

SPANISH (SPA)

SPA 103. Spanish For Health Care Professionals. 3 Credits.
This course in basic Spanish is designed for those in the healthcare professions. It focuses on providing students with the language skills and specialized vocabulary necessary to facilitate basic communication with Spanish-speaking patients. Students will also study the impact of culture on the health care needs of Hispanic people. No previous Spanish is required. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

SPA 109. Beginning Spanish I. 3 Credits.
This course emphasizes the development of basic comprehension and speaking skills to the level of automatic response. Appropriate reading and writing assignments are introduced to reinforce these oral skills. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

SPA 110. Beginning Spanish II. 3 Credits.
A continuation of SPA 109 Beginning Spanish I, this course broadens comprehension, writing, and speaking skills. Prerequisite: SPA 109. Spring.

SPA 209. Intermediate Spanish I. 3 Credits.
This course emphasizes the development of conversational, reading, and writing skills of increasing complexity. The fundamentals of grammar are reviewed, and reading selections of Spanish culture and civilization are introduced. Prerequisite: SPA 110. Fall.
SPA 210. Intermediate Spanish II. 3 Credits.
A continuation of SPA 209 Intermediate Spanish I, this course focuses on improving students' conversational, reading, and writing skills. The development of a simple prose style and improved reading comprehension is emphasized through the use of literary and cultural selections of progressive difficulty. Prerequisite: SPA 209. Spring.

SPECIAL TOPICS-SOCIAL SCIENCE (SSC)

SSC 120. Perspectives On Leadership. 3 Credits.
This course explores the role and function of leadership and its application practice. Traditional and contemporary leadership theories and current issues in research including emerging topics in gender, culture, and ethics will be covered. Prerequisites: ENG 098, FYE 101, RDG 098, or placement.

SPEECH (SPC)

SPC 113. Speech (formerly THE113). 3 Credits.
This course introduces students to the basic skills of extemporaneous speaking through preparation and practice. Emphasis is placed on managing speech anxiety, audience analysis and adaptation, organization and outlining skills, research skills, critical thinking and argumentation, visual aids and technology, and effective delivery. Students deliver a minimum of 4 to 5 graded speech assignments. These may include but are not limited to introduction speeches, informative speeches, impromptu speeches, demonstration speeches and persuasive speeches. At least two of the speech assignments will require academic research. Prerequisite: ENG 101.

THEATRE (THE)

THE 101. Fundamentals Of Acting. 3 Credits.
Through the use of improvisation, theatre games, and scene study, students will be exposed to the working techniques that assist actors in creating a role and executing it in performance. The course will focus on the fundamental skills of the actor: concentration; believable action; basic stage directions and motivated movement; observation; emotional and sensory recall; and defining objectives. The course will culminate in student performance of scenes and monologues. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Fall.

THE 103. Introduction To Theatre. 3 Credits.
Students will become acquainted with various elements which comprise the world of theatre, including a brief view of its history, traditions, language, styles, and purposes as well as the function of the various disciplines within the craft and how they combine to create a theatrical production. Prerequisites: ENG 098, FYE 101, RDG 098, or placement. Spring. Alternate Years.

THE 106. Fundamentals Of Acting II. 3 Credits.
Building on the skills learned in THE 101 Fundamentals of Acting, this course focuses on script analysis and its application to scene study. Through scene work, students take a script from “page to stage” culminating in class projects presented for the public. Prerequisites: ENG 101, THE 101.

THE 112. Children's Theatre/Theatre for Young Audiences. 3 Credits.
This course will explore the understanding and appreciation of the art of Children’s Theatre through the development of skills as a storyteller, performer, director, designer, and audience member/reviewer. Additionally, students will acquire skills for planning and adapting stories for children’s productions. Prerequisite: ENG 098, FYE 101, RDG 098, or placement. Spring.

THE 175. Introduction to Costume Design. 3 Credits.
This course explores the introductory skills and duties needed to perform in the role of costume designer in the performing arts. Students will work through the process of “Page to Stage” including but not limited to script analysis, research, production documentation, rendering and an introduction to textiles. Prerequisites: ENG 098, FYE 101, RDG 098 (or placement). Fall.

THE 184. Technical Theatre Practicum I (Formerly THE284). 3 Credits.
This course is a hands-on introduction to basic stagecraft and technical production. Students are exposed to the terminology, tools, equipment, machinery, and materials involved in standard set construction, painting, rigging, lighting and sound. Students learn to work safely, collaboratively and creatively as part of a production team for Theatre at the Mount productions and events. Prerequisites: ENG 098, FYE 101, MAT 092, RDG 098, or placement.

THE 185. Technical Theatre Practicum II (Formerly THE 285). 3 Credits.
This course builds on the skills learned in THE 184 – Technical Theatre Practicum I. While working on Theatre at the Mount productions and events, students learn more advanced techniques and are expected to assume increased responsibility for production projects, working independently as directed by the instructor/Technical Director. Students are also exposed to basic theatre design practices and complete a design project which may focus on creating a Ground Plan, designing props, or building a Set Model. Prerequisites: THE 184.
VETERINARY TECHNOLOGY (VTE)

VTE 101. Introduction to Veterinary Technology. 3 Credits.
This course will introduce new Veterinary Technology students to the expectations of learning throughout the program, medical terminology, medical calculations, breed identification of companion animals, common regulatory agencies throughout the field, and credentialing of veterinary professionals. Students will explore the inner workings of veterinary hospitals, discover the medical ethics laws for veterinary health care professionals, partake in appropriate communication between veterinary professionals and clients, interpret medical records, schedule appointments and discuss common laws relating to medical malpractice within the veterinary field. Prerequisites: ENG 098, MAT 162 (or corequisite), RDG 098, FYE 101 or placement; high school biology within the past three years with a grade of “B” or higher. Fall.

VTE 102. Anatomy and Physiology of Domestic Animals I. 4 Credits.
Participants learn the inner workings of the domesticated animal’s body and how organs develop, their functions, and the reason they are present in the body. Students will use preserved animals, teaching mannequins and anatomical models of a variety of species to study both gross and microscopic anatomy of the integumentary, skeletal and muscular systems. Prerequisites: ENG 101 (or corequisite); MAT 162 (or corequisite); VTE 101 (or corequisite). Fall.

VTE 103. Anatomy and Physiology of Domestic Animals II. 4 Credits.
VTE 103 is a continuation of VTE 102. This course will more comprehensively explore the inner workings of the body. Students will learn about the brain, as well as the nervous, urinary, respiratory, endocrine, circulatory, reproductive and urinary systems. Prerequisites: VTE 102 with a C+ or higher. Spring.

VTE 110. Farm Animal Medicine. 4 Credits.
This course will discuss breed identification, restraint techniques, husbandry, behavior, anatomy, nutrition, common diseases and medical practices in large animal species. Laboratories will meet off-site at large animal facilities. Prerequisites: VTE 101, VTE 103 with a C+ or higher. Fall.

VTE 115. Veterinary Parasitology. 4 Credits.
During this course, students will learn a variety of common internal and external parasites that are encountered in veterinary medicine. Students will be able to identify each parasite, both microscopically and grossly; the common symptoms associated with each parasitic infection; the life cycles; methods of testing; treatment and prevention strategies; as well as public health significance of each parasite covered. Prerequisites: VTE 101 (or corequisite). Fall.

VTE 120. Animal Diseases. 2 Credits.
Students will explore numerous congenital, infectious, traumatic and neoplastic disease processes that can affect companion animal species. Each student will be familiar with identifying each disease, its symptoms and presenting complaints, and the diagnostic and therapeutic approaches veterinary professionals must take. Prerequisites: BIO 205 (or corequisite), CHE 107, and VTE 102 with a C+ or higher. Spring.

VTE 200. Domestic Animal Nutrition and Health. 2 Credits.
The course will cover the canine and feline digestive system, the nutrition needed by these species, the different types of pet foods and their role in nutrition, and the nutritional requirements for the different life-stages of cats and dogs. Prerequisites: VTE 101 with a C+ or higher. Spring.

VTE 205. Veterinary Pharmacology. 2 Credits.
Students will explore the principles of pharmacology including general drug use; administration; types of drugs; indications and contraindications of drug use; and mechanism of action; as well as drug labeling, dispensing and packaging. Each student will also understand the legalities and ethics of using controlled substances. Medical calculations, prescription notation and proper record keeping will also be reviewed. Prerequisites: VTE 101 with a C+ or higher and CHE 107. Fall.

VTE 208. Veterinary Radiology. 2 Credits.
This course will cover general veterinary radiology safety, x-ray generation, film handling and processing, position and restraint. Ultrasonography, CT and MRI will also be covered. Prerequisites: VTE 103 and VTE 110 with a C+ or higher. Spring.

VTE 210. Veterinary Clinical Nursing Skills. 4 Credits.
The purpose of this course is to provide the student with the knowledge and the hands-on skills essential for the day-to-day veterinary technician role. The course will cover topics such as performing thorough physical exams; triaging patients; restraint and handling; administering medications parenterally, intramuscularly, subcutaneously and intravenously; venipuncture; intravenous catheter placement; urinary catheter placement; fluid therapy; emergency procedures; bandaging; and use and translation of normal and abnormal electrocardiograms. Prerequisites: VTE 103, VTE 120 with a C+ or higher. Fall.
VTE 215. Veterinary Technician Internship I. 3 Credits.
Students are required to participate in an off-site externship for 9 hours weekly (126 total hours) at a facility of their choosing. Each facility must be pre-approved by the Veterinary Technology Program Director prior to the student starting his/her externship. Students may select an externship in any type of facility they please (i.e. large animal, emergency medicine, specialty medicine, marine life, research and exotics), but must be under direct supervision of a certified veterinary technician (CVT), unless otherwise decided by the Program Director. Each rotation will require a journal submitted at the end of the rotation explaining day-to-day activities (in detail) in which the student participated while at the externship. Prior to completing the course, students are required to present an interesting case study in which they were involved during their externships. Prerequisites: VTE 120, VTE 210 with a C+ or higher. Fall.

VTE 216. Veterinary Technician Internship II. 3 Credits.
Students are required to participate in an off-site externship for 9 hours weekly (126 total hours) at a facility of their choosing. Each facility must be pre-approved by the Veterinary Technology Program Director prior to the student starting his/her externship. Students may select an externship in any type of facility they please (i.e. large animal, emergency medicine, specialty medicine, marine life, research and exotics), but must be under direct supervision of a certified veterinary technician (CVT), unless otherwise decided by the Program Director. Each rotation will require a journal submitted at the end of the rotation explaining day-to-day activities (in detail) in which the student participated while at the externship. Prior to completing the course, students are required to present an interesting case study in which they were involved during their externships. Offered during Spring and Summer semesters. Prerequisites: VTE 215 with a C+ or higher.

VTE 218. Domestic Animal Behavior. 2 Credits.
This course will explore the different behaviors displayed by canines and felines. Body language, communication, social structure and life stage behavior will be discussed in detail. Strategies for preventing and correcting unwanted behaviors will also be discussed. Prerequisites: VTE 220 with a C+ or higher. Fall.

VTE 220. Veterinary Clinical Laboratory Procedures. 4 Credits.
The purpose of this course is to provide students with the knowledge of how to properly collect and handle laboratory specimens, proper storage of each specimen, and general laboratory procedures. Each student will learn the skills used by most veterinary practices in the fields of blood chemistries, hematology, cytology and urine. Prerequisites: VTE 101 with a C+ or higher and VTE 120 (or corequisite). Spring.

VTE 222. Laboratory Animal Medicine and Management. 2 Credits.
This course will provide the student with the information needed to pursue a career as a veterinary technician in a research facility. The course will cover the local, federal and state mandated laws and regulations regarding the care and use of laboratory animals. Students will explore proper husbandry, restraint and technical skills such as drawing blood and injecting medications into laboratory species which include mice, rats, hamsters and rabbits. Prerequisites: VTE 103, VTE 200, VTE 210, and VTE 220 with a C+ or higher. Spring.

VTE 225. Surgical Nursing and Dentistry. 4 Credits.
Students will explore the knowledge and experience that are essential in performing safe surgical procedures in veterinary practice. Students will know how to anesthetize small animals; properly and effectively monitor patients under anesthesia; and use aseptic techniques both for prepping patients for procedures and for veterinary personnel. Students will be able to identify and explain proper use of surgical equipment and surgical instruments. Students are required to understand the procedures and safety precautions for patients and veterinary professionals before, during, and after surgical procedures. Students will also develop the skills for performing effective dentistry procedures, including dental x-rays, tooth extractions, and dental cleanings, as well as the knowledge to identify dental diseases. Prerequisites: VTE 103, VTE 205, and VTE 210 with a C+ or higher. Spring.

ELECTIVE COURSES BY ABBREVIATION

BUSINESS ELECTIVES
ACC, BUS, CIS, ECO, FIN, HRM, MGT, MKT, LAW

HUMANITIES ELECTIVES
ART, ASL, DAN, ENG, FRE, HUM, MUS, PHL, SPA, SPC, THE

SCIENCE ELECTIVES
AQS, BIO, BTC, CHE, EAS, EGM*, NRD, PHY (3-credit courses)
*No longer offered

LAB SCIENCE ELECTIVES
AQS, BIO, BTC, CHE, EAS, EGM*, NRD, PHY (4-credit courses)
*No longer offered

**SOCIAL SCIENCE ELECTIVES**
Behavioral Social Science: ANT, PSY, SOC, SSC
Non-behavioral Social Science: ECO, GEO, HIS, POL, SSC

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101</td>
<td>Introduction To Nutrition (formerly NUT101)</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Human Health And Disease</td>
<td>3</td>
</tr>
<tr>
<td>CHC 101</td>
<td>Introduction to Complementary Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>CHC 102</td>
<td>Foundations of Yoga</td>
<td>3</td>
</tr>
<tr>
<td>CHC 108</td>
<td>Transforming Stress</td>
<td>3</td>
</tr>
<tr>
<td>EXS 102</td>
<td>Principles Of Anatomy And Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>EXS 201</td>
<td>Exercise Science And Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>PER 126</td>
<td>Fitness And Wellness</td>
<td>2</td>
</tr>
<tr>
<td>PER 127</td>
<td>Weight Management through Walking and Resistance Training</td>
<td>2</td>
</tr>
<tr>
<td>PER 130</td>
<td>Health, Fitness, And Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>
LITERATURE ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 201</td>
<td>Honors English</td>
<td>3</td>
</tr>
<tr>
<td>ENG 203</td>
<td>Twentieth Century American Authors</td>
<td>3</td>
</tr>
<tr>
<td>ENG 205</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 213</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 214</td>
<td>American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 221</td>
<td>Women's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 224</td>
<td>Mystery Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 233</td>
<td>Science Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENG 235</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 236</td>
<td>Modern Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 237</td>
<td>Special Topics: Queer American Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENG 252</td>
<td>Shakespeare and Star Wars: A Study of Tragedy through Drama and Film</td>
<td>3</td>
</tr>
<tr>
<td>ENG 259</td>
<td>Literary Masterpieces I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 260</td>
<td>Literary Masterpieces II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 261</td>
<td>The Short Story</td>
<td>3</td>
</tr>
</tbody>
</table>

GENERAL ELECTIVES

A General Elective course is any course other than the following courses:

**Foundation Courses**
- ENG 096 Writing Readiness
- ENG 097 Writing Seminar
- ENG 098 Fundamentals of Writing

- MAT 092 Foundations of Mathematics
- MAT 093 Statway
- MAT 097 STEMWAY

- RDG 096 Fundamentals of Reading I
- RDG 098 Fundamentals of Reading II

**English as a Second Language (ESL) Courses**
- ELC 096 Intermediate Conversation
- ELC 098 Advanced Conversation
- ELG 096 Intermediate Grammar
- ELG 098 Advanced Grammar
- ELR 096 Intermediate Reading
- ELR 098 Advanced Reading
- ELW 096 Intermediate Writing
- ELW 098 Advanced Writing
- ESL 097 High Intermediate ESL for Academic Success
- ESL 098 Advanced ESL for Academic Success
- ESL 099 Transitional ESL for Academic Success in College Writing
GENERAL EDUCATION CORE CURRICULUM

The general education core curriculum at MWCC provides graduates with the skills, knowledge, and intellectual understanding they need to function effectively in a dynamic, complex, and interdependent world.

All students graduating from MWCC must complete one of the following core curricula, depending upon the student’s degree program.

Non-STEM Transfer degree programs have the following General Education Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101: College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102: College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Electives</td>
<td>9</td>
</tr>
<tr>
<td>Social Science Electives</td>
<td>9</td>
</tr>
<tr>
<td>Science Electives</td>
<td>7-8</td>
</tr>
<tr>
<td>Mathematics Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>34-36</td>
</tr>
</tbody>
</table>

STEM Transfer degree programs have the following General Education Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101: College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102: College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Electives</td>
<td>6</td>
</tr>
<tr>
<td>Social Science Electives</td>
<td>6</td>
</tr>
<tr>
<td>Science Electives</td>
<td>7-8</td>
</tr>
<tr>
<td>Mathematics Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>28-30</td>
</tr>
</tbody>
</table>

Career degree programs have a core as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101: College Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102: College Writing II</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Mathematics Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Liberal Arts &amp; Science Elective*</td>
<td>3-4</td>
</tr>
<tr>
<td>Total Credits</td>
<td>21-24</td>
</tr>
</tbody>
</table>

* Liberal Arts and Sciences are defined as courses coming from the Humanities, Sciences, Mathematics and Social Sciences (p. 357).

Contact MWCC Advising at 978-630-9109 with questions.
INSTITUTIONAL STUDENT LEARNING OUTCOMES

Mount Wachusett Community College has identified five Institutional Student Learning Outcomes that define the skills that students will be able to demonstrate upon graduation from MWCC. Students will accomplish these outcomes through completing coursework and co-curricular activities on campus and in the community. Through their Program of Study, students will acquire subject matter knowledge in their field that aligns with their Program Student Learning Outcomes.

Upon graduation from Mount Wachusett Community College, students will be able to

**ISLO 1: ANALYZE** information to formulate ideas and to solve problems.

1.1 Represent qualitative and quantitative information in a variety of contexts (equations, graphs, tables, diagrams, etc.);
1.2 Interpret qualitative and quantitative information that is in a variety of contexts (equations, graphs, tables, diagrams, etc.);
1.3 Articulate the steps necessary to solve a problem;
1.4 Analyze a theory or idea using sound supporting evidence; and
1.5 Draw appropriate evidence-based conclusions.

**ISLO 2: COMMUNICATE** information, ideas and opinions effectively for a range of purposes and audiences.

2.1 Interpret various types of written communication;
2.2 Formulate ideas and opinions supported by organized appropriate content; and
2.3 Write and speak fluently to communicate in English.

**ISLO 3: CREATE** a work that reflects originality.

3.1 Analyze creative works from a variety of cultures, perspectives and/or techniques;
3.2 Apply creative thinking skills to solve problems; and
3.3 Produce work that reflects originality.

**ISLO 4: ENGAGE** within local, national, and global communities.

4.1 Identify personal and cultural beliefs and how they relate to the larger world;
4.2 Identify ethical principles and how these principles apply;
4.3 Conduct themselves professionally with people from all backgrounds; and
4.4 Participate as responsible global citizens and engaged members of society.

**ISLO 5: RESEARCH** to deepen understanding, answer questions and discover evidence to support a concept, theory or observation.

5.1 Recognize when information is needed to support a perspective or argument, or to explain or validate a concept, theory, or observation;
5.2 Locate appropriate information resources in print and/or digital media;
5.3 Incorporate and properly site multiple information sources; and
5.4 Evaluate information for use in projects and/or papers.
ADVISING SERVICES

Academic advising at MWCC is an intentional teaching and learning collaboration between faculty, students, and professional advisors focused on empowering students to articulate and achieve their goals, while cultivating individual growth.

Students are assigned faculty or professional staff advisors based on their academic program. Throughout their enrollment at MWCC, academic advisors guide students by helping them select courses that meet degree requirements; explaining academic standards, college policies, and procedures; and helping students access support services. Students should meet with their advisor often to ensure they are making wise academic and career decisions. They should also consult with their advisor prior to adding or dropping courses, before changing curricula, if they are experiencing difficulty in courses, or having problems that interfere with educational progress.

Although faculty and professional staff advisors are available to assist students in achieving educational goals, students are responsible for making sure they meet degree requirements and graduation criteria. It is extremely important that students follow their advisor's recommendations to achieve academic goals. Students may request an advisor other than the advisor assigned to them. Academic advisors are available through the Gardner Advising Center, as well as at the Leominster and Devens campuses. To schedule an appointment with an academic advisor, please call 978-630-9109 or email advisor@mwcc.mass.edu.
**STUDENT RESOURCES**

**BOOKSTORE**

**STORE HOURS**
Regular hours at the Gardner Campus during the fall and spring semesters are 8:30 a.m. to 4:00 p.m., Monday through Thursday, and 8:30 a.m. to 3:00 p.m. on Fridays. Extended hours are offered during the beginning of each term. Posted hours are available at the Leominster and Devens Campuses. This information is also posted on the MWCC Bookstore website (https://www.bkstr.com/mwccstore/). For more information, call 978-630-9104.

**TEXTBOOK COSTS**
While textbook prices vary widely, we recommend that you budget for about $150 per course for your required learning materials. Your MWCC bookstore is very concerned about textbook prices and makes every attempt to provide lower cost options such as used textbooks (sold at a 25 percent discount), textbook rentals, and digital textbooks. The bookstore also buys back used textbooks at the end of each term.

**WEBSITE**
At the MWCC Bookstore website (https://www.bkstr.com/mwccstore/), you can buy your college textbooks as well as an assortment of MWCC clothing and gifts. The website will accept VISA, MasterCard, Discover, American Express, and MWCC financial aid book vouchers. The website also features the most up-to-date information regarding store hours and events.

**BULLETIN BOARDS AND POSTING POLICY**
Advertising on campus, posting on bulletin boards, and similar solicitations are subject to the approval of the Dean of Students or her/his designee and to the college solicitation policies. All materials in display cases and on bulletin boards must be authorized, stamped, and dated by the student services office before appearing on bulletin boards. Unstamped advertisements and notices will be removed. Dated materials will be removed upon completion of the advertised date of the event or program. Undated materials will be posted for two weeks unless otherwise approved. Additionally, commercially sponsored programs or events (for-profit organizations, including but not limited to night clubs, travel program agencies, etc.) may not solicit or promote their events on the property of MWCC. Advertising may appear on assigned bulletin boards and stanchions only. Windows, doors, walls, and glass are not for advertising purposes. Advertising appearing in unassigned areas will be removed. Entrances, doorways, and hallway areas may not be blocked in any way by postings. Posted advertisements can be no larger than 11” X 17.” Conditional exceptions may be allowed by the Dean of Students or a designated representative. Certain bulletin boards and display cases are assigned and identified for the exclusive use of academic or other departments for college business and are not subject to this approval process.

**CAFETERIA (GREEN STREET CAFÉ) – GARDNER CAMPUS ONLY**
The cafeteria is open from 7:30 a.m. to 2:00 p.m., Monday through Thursday and Fridays from 7:30 a.m. to 1:30 p.m. during the regular academic year. Please help the cafeteria staff by placing your refuse, trays, and dishes in the designated areas. Food and beverages are not allowed in classrooms. Consumption of all foodstuffs should be confined to the cafeteria area unless wrapped in a "take out" container. Summer hours are 7:30 a.m. to 1:30 p.m., Monday through Thursday and 7:30 a.m. to 1:00 p.m. on Fridays. The Green Street Cafe offers a wide selection of affordable, nutritious and delicious meals, snacks and beverages.

**CHILD CARE SERVICES**
The Garrison Center for Early Childhood Education, located at the MWCC Gardner Campus, serves as the central location for on-campus childcare services and as a laboratory school for the MWCC Early Childhood program. Preschool care (2.9 years to 6 years) is provided by the Montachusett Opportunity Council (MOC) on the MWCC Gardner Campus. The program offers a safe and stimulating environment, nutritious meals and snacks, flexible scheduling, and a professionally trained staff. Vouchers are accepted. For more information, contact the MOC office at 1-800-523-6373.

The CCAMPIS Program (Child Care Access Means Parents In School) at Mount Wachusett Community College is a federally-funded program that provides child care subsidies to qualified students who are enrolled part-time or full-time at MWCC campuses. The CCAMPIS subsidy is determined by the students EFC (expected family contribution) and can be in the amount of 60%, 40% or 20% of their child care costs. CCAMPIS works with the eligible student to secure a place at the Garrison Center or at a qualified off-campus provider. For more information, visit the CCAMPIS website (http://
The program is limited to assist 30 eligible students.

**HOUSING OPTIONS**

The college does not supervise or control housing arrangements undertaken between students and landlords. However, we are pleased to supply information for your use concerning available rooms and apartments. Consideration should be given to having insurance that would cover personal belongings in the event of a loss. Information concerning housing may be obtained from the student services office. The college adheres strictly to a policy of equal opportunity and affirmative action. We encourage all individuals offering these housing opportunities to adopt these policies to the full extent of the applicable laws (The Fair Housing Act, 42 U.S.C. 3601 et seq.; M.G.L. c. 151B). Persons indicating any illegal restriction in their residential opportunities will not be promoted by the college.

**LOST AND FOUND**

Lost and found is located in the campus police office, room 147, and is open from 8:00am - 4:00pm M-F.

**PARKING**

Parking rules are defined in the detail in the Campus Access Parking & Safety Information Brochures. There is ample parking for students, faculty and staff and reserved parking for the disabled. Parking stickers are not required for general/open student and public parking. Faculty and staff must obtain a parking sticker for reserved parking. Parking lots B, C, and D are designated for students and visitors. Parking lot A, E and F (greenhouse parking) are for faculty and staff only. It is unlawful for a non-resident student to fail to file a non-resident driver statement with the police department located in the same city or town as the school or college attended, in accordance with M.G.L. s.3; c. 90. Failure to file such a statement is punishable by a fine not to exceed $200. MWCC students can obtain the required forms from the campus police department. Carpools may be facilitated by contacting the Student Services Office. Special reserved medical parking permits for students, staff or faculty with temporary disabilities are available in the Health Services Office. Parking is available on a first come, first serve basis.

**GUESTS AND VISITORS ON CAMPUS**

Mount Wachusett Community College is an open campus that serves many purposes to our credit students, non-credit students, Fitness Center members, employees and community guests. Guests and visitors to any MWCC campus are expected to observe all posted policies and expectations. Guests/visitors are also expected to respond to all reasonable directives of college administrators. Campus Police reserves the right to question the presence of any guest. Guests and visitors who disrupt the normal operation of the college may be asked to leave campus.

Students and guests of the college who bring children on campus are responsible for them at all times. Children under the age of 16 are not allowed in the classroom or in the library unless they are an authorized and registered MWCC student. Unattended children are not permitted. If unattended children are located, campus police will be notified and parents/guardians or caretakers will be expected to secure the child immediately. Children should not accompany their caregivers to testing, tutoring, classes or laboratories. Students with children should secure appropriate childcare to cover their periods of enrollment and study hours on campus.

Classroom spaces are reserved for students who are enrolled and registered in a particular course. Guests/visitors are not permitted in the classroom without the advance permission of the instructor and Division Dean. Faculty reserve the right to ask any person who does not appear on the official class roster to leave the classroom. The only exception to this policy would include academic support professionals pre-approved by the college to be in the classroom.

**ART LOCKERS**

A limited number of art lockers are available for students on a first-come, first-serve basis. A deposit of $10.00 is required which is reimbursed at the end of the school year. Further information is available in the Student Services office, room 141.

**STUDENT ID CARDS**

MWCC has instituted a photo identification system for all students at the college who are registered in credit-bearing classes. There is a $10 fee for the processing of all student ID cards. An official photo ID for identification (i.e. a driver’s license, passport, state-issued ID, or military ID) is required to obtain an MWCC Student ID. The student ID card is used to access library resources, to waive meal tax in the cafeteria, to gain admission to the Fitness and Wellness Center (with...
ID cards are distributed though the MWCC Office of Student Life during the first week of each semester and during other scheduled hours. Students must have their student ID cards validated each semester at MWCC Student Services or at the MWCC Library. Students can also have their ID cards validated at the front offices at the Burbank, Devens and Leominster campuses.

TRANSPORTATION

The following transportation possibilities are available: MART Gardner Buses, MART Fitchburg/Leominster Intercity Buses, MART Wachusett Shuttle, MART Athol Link, MART Winchendon Link, Gardner to Athol-Orange-Winchendon Buses, and MBTA Commuter Rail Service to Fitchburg or Wachusett only. Further information on each is available in the student services office, room 141. MART bus pick-up and drop-off is located in parking lot B. All riders are strongly encouraged to refer to the MART website (http://www.mrta.us) for updated scheduled and ride information. Paper schedules may not be accurate and MWCC is not responsible for changes made by MART.

STUDENT LIFE

Student life creates an environment that provides for the personal integration of educational, recreational, civic, and social experiences for all students. Our mission is to give students the opportunity to develop their skills and knowledge and to strengthen their awareness of their role and responsibility in society. Every attempt is made to be responsive and satisfy the expressed interest of the student body by providing quality programming and increased levels of participation in clubs/organizations.

At MWCC, students choose their level of involvement in cocurricular activities. Through involvement in the Student Government Association (SGA), or any number of clubs and organizations, students can develop their leadership abilities, gain new friendships, and become more culturally enriched. If there's not a club that suits you, a group of students may form a club if it meets the SGA criteria.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

In compliance with the Americans with Disabilities Act, students with disabilities who may require accommodations in order to participate fully in student activities, programs, or events should contact the Coordinator of Disability Services to discuss their specific needs. When an American Sign Language interpreter is needed, reasonable notification is critical to ensure appropriate coverage. Students are asked to notify the Coordinator at least 30 days in advance of the start of each academic semester or in advance of a meeting or event requiring the support of an interpreter.

ACTIVITY CALENDARS

Calendars of events and announcements are published monthly by the Student Life Office. Check out the calendar of events at the MWCC Student Life website (http://www.mwcc.edu/studentlife/), iConnect (http://iconnect.mwcc.edu), or on the Student Life bulletin board located in the café hallway.

CLUBS AND ORGANIZATIONS

Students are encouraged to join one or more clubs or organizations depending upon interests and availability of time. Notices of club sign-ups and meetings are posted on college bulletin boards. Consult the MWCC Student Life Office for further information.

Clubs and organizations include:

- ALANA Club
- Alpha Beta Gamma Business Honors Society
- Art Club
- Astronomy Club
- CATS (Campus Activities Team for Students)
- Cru Club
- Cultural Engagement and International Service Club
- Delta Alpha Pi Honor Society
- Dental Hygienist Club
- Early Childhood and Elementary Education Club
- ESL Club
- Graphic and Interactive Design Club
Green Society
Hiking and Recreation Club
Human Service Club
Intramurals
iPublications
Legal Studies Group
Mount Observer Student Newspaper
Musicians at the Mount
Nutrition Club
Otaku United Club
Parent Support Group
Phi Theta Kappa International Honor Society
Philosophy Club
PTA Club (Physical Therapist Assistance)
SAGA (Sexuality and Gender Alliance)
Sigma Alpha Pi Leadership Society
STEM Club
Student Government Association (SGA)
Student Nurses Association (SNA)
Veterans and Allies Club

MOUNT FITNESS

MWCC’s Mount Fitness is housed in the Vietnam Veterans Memorial Physical Education Complex, built in 1977 to help students develop their bodies as well as their minds. This philosophy is extended to the public as well as to the college’s faculty, staff, and students. This multi-purpose Fitness & Wellness Center serves the educational, recreational, and physical needs of all who wish to join and use it.

The Facility

The MWCC Fitness & Wellness Center is a 65,000 square foot, air conditioned center that features state-of-the-art fitness equipment in a clean and friendly environment. The center is staffed with professional and certified personal trainers to assist in recreational and fitness activities and features the following equipment and facilities:

- Multi-purpose gymnasium with 2 full basketball courts
- Two extensive cardio areas featuring the newest in fitness equipment including: treadmills, elliptical trainers, Adaptive motion trainers, Arc trainers, steppers, octane lateral machine, step mills, and rowers
- Extensive weight and fitness areas
- Six-lane, 25-yard swimming pool
- Racquetball courts
- Outdoor basketball, tennis courts, and track
- Volleyball courts
- Men’s and women’s shower and locker facilities
An extensive program of noncredit instructional classes is also available to members and non-members. Some of these include:

- Over 75 Group Fitness programs
- MOSSA world class group exercise programs
- Red Cross CPR, first aid, lifeguard and Water Safety Instructor training
- Masters Swimming
- Personal Training
- Golf lessons
- Silver Sneakers Senior fitness
- Pickleball
- Swimming lessons
- Spartan SGX Obstacle Course Training
- Wellness programs
- Aqua classes
- Summer camps
- Birthday Parties

A nursery is available, at certain times, to members while they are in the center for a low fee. All Family memberships include child care with no extra fees.

**Hours of Operation and Membership**

The Fitness and Wellness Center is open from 5:00 a.m. to 9:00 p.m., Monday through Friday, and 7:00 a.m. to 5:00 p.m. on Saturday and Sunday.

**Rates**

All students, staff, and members of the community should call the center at 978-630-9212 for the membership options available to them.

**HONOR SOCIETIES**

**Phi Theta Kappa International Honor Society**

Membership in Phi Theta Kappa Honor Society guarantees you access to benefits that will recognize your outstanding academic accomplishments and provide you with the competitive edge that helps ensure future success. These benefits are unmatched by any other collegiate honor society. For example, members have access to over $37 million in scholarships set aside for members only.

The guidelines that dictate eligibility for Phi Theta Kappa are derived from both the international membership guidelines and those set forth for the Phi Delta chapter at MWCC. The guidelines include the following:

- Minimum cumulative GPA of a 3.3 in coursework completed in residency at MWCC.
- Minimum of 12 credits earned (completed) in residency.

Full and part-time students as well as continuing education, international and dual enrollment students are eligible for membership under these guidelines. Currently, students are selected for this recognition during the months of October and February. Invitations to eligible students are emailed, and the invitation remains open for the duration of the academic semester. Students who wish to accept membership must pay a one-time fee for membership, which can be paid online.

Students in our local chapter fundraise to support three scholarships to cover the membership fee for students for whom this fee may create difficulty.

Students who meet these requirements and indicate their interest in membership to the Phi Theta Kappa advisor by the designated deadline will be recognized at commencement ceremonies and at the annual awards ceremony.

Phi Theta Kappa is the largest honor society in American higher education with more than 2.5 million members and 1,275 chapters located in 50 United States, U.S. Territories, Canada, Germany, Peru, the British Virgin Islands, the Republic of Palau, the Federated States of Micronesia, the Republic of the Marshall Islands and the United Arab Emirates. In 1929,
the American Association of Community Colleges recognized Phi Theta Kappa as the official honor society for two-year colleges.
Alpha Beta Gamma International Business Honor Society
To be eligible for membership in Alpha Beta Gamma International Business Honor Society, a student must:

• be enrolled in a business curriculum in a junior, community, or technical college, or a two-year accredited program within a college or university;
• have completed 15 credit hours with at least 12 hours of his/her work taken in courses leading to a degree recognized by his/her institution; and
• have demonstrated academic excellence by attaining a 3.0 GPA or its equivalent in business courses as well as a 3.0 overall average.

Delta Alpha Pi International Honor Society
Delta Alpha Pi Honor Society is an academic honor society founded to recognize high-achieving students with disabilities who are attending colleges and universities as undergraduate or graduate students. The Delta Alpha Pi chapter at Mount Wachusett Community College is known as Epsilon Theta. It was established in 2017 to recognize students with disabilities for their academic achievements and leadership skills and to acknowledge their determination and perseverance. Epsilon Theta chapter members assist in promoting disability awareness and pride at MWCC by helping coordinate and participating in various activities on campus.

To be eligible for membership in Delta Alpha Pi, a student must:

• Present with a documented disability and work with one of the staff members of the Disability Services team.
• Demonstrate an interest in disability issues.
• Complete a minimum of 24 college level credits.
• Earn an overall Grade Point Average of 3.10 or higher.

Leadership Society
Sigma Alpha PI is Mount Wachusett Community College’s online chapter of The National Society of Leadership and Success.

The National Society of Leadership and Success is a nationwide community of college leaders dedicated to building leaders who make a better world. The Society is one of the largest honor organizations in America and includes programming events that positively impacts people's lives. Each term Mount Wachusett Community College students are invited to participate in the program who have obtained a minimum of 2.5 grade point average, successfully completed 15 credit hours and are in good standing with the college.

MWCC Student Center
The casual atmosphere of the new, 4,000 square foot student center makes it the perfect place for students to relax and to gather with fellow students before and after classes. Special events and programs will be sponsored in the center by the Student Life Office. We invite students to drop in and enjoy the amenities and welcoming environment that the facility offers. Amenities include computers, televisions, gaming stations, and ping pong & pool tables.

Room Use
Clubs or organizations wishing to meet during the community time or at any other time should contact the room reservation staff located on the Gardner campus in room W05 or at 978-630-9145 to request to book a space.

Student Actions
Students who wish to present issues to the student body relative to on- or off-campus questions or issues, whether as a means of collecting or registering opinions of support, or protest, or of simply collecting comments on topics of interest and concern to the student body, shall be afforded the opportunity to do so in the following manner:

• The students who are primarily involved in organizing the action must present a signed, written notice of their intent to the Dean of Students.
• The Dean of Students will provide a location for tables or picket lines in an appropriate location in the college buildings or on the college grounds.
• Students may not interfere with the normal operation of the college or its agencies. The activity must be set up in such a manner so as not to interfere with the right of members of the college community to use the facilities of the college without deviating from their normal traffic flow.

• Persons who are not members of the college community (students, faculty, and staff) are not entitled to participate in these activities on college property.

• All the normal rules and regulations governing the posting and distribution of printed or other graphic material, and prohibiting solicitation on campus, will apply.

Those persons, who are engaged in an activity which is in violation of the regulations set forth above, or which results in physical damage to the property of the college or its agencies, shall be held personally responsible and shall be referred to the proper college authorities for disciplinary action.

For purposes of definition relative to this statement, the following are considered to be agencies of the college: all recognized student organizations, the Alumni Association, the cafeteria, the bookstore, and all groups or organizations which are permitted use of the facilities (for the duration of their occupancy of such facilities).

**STUDENT GOVERNMENT ASSOCIATION**

The Student Government Association (SGA) fosters the recognition of student body rights. It acts as a unified body that represents and governs the students. The SGA endeavors to provide for student welfare, approves the existence of organizations on-campus, administers the budgets for student activities, and facilitates the necessary communications and understanding between the faculty, administration, and the student body. The by-laws governing the SGA are published online. Meeting dates are posted on the SGA announcement board at the beginning of each semester. They are open to the college community and students are invited to attend. Students are further encouraged to take an active role in the SGA by running for office and voting during SGA elections. The SGA holds its elections in September and April.

**STUDENT PUBLICATIONS**

iPublications is a student literary organization that showcases student poetry, prose, and artwork by organizing student readings and publishing the annual student literary magazine, *A Certain Slant*.

The Mount Observer, a student-run newspaper, is available in print and on the web. The Mount Observer also highlights stories on Facebook and Twitter.

**STUDENT TRUSTEE**

Each year during the spring election, a full-time¹ student is elected to serve a one-year term as student trustee. This individual is a voting representative who serves on the 11-member MWCC Board of Trustees. This board is the governing body of the college and makes major decisions about policies for the institution. The student trustee provides student representation on the board and presents the voice of the students about various campus concerns, as well as broader issues in public higher education.

¹ Students may request an accommodation to the policy determining what full-time status is for the purpose of serving as a student trustee.

**STUDENT SERVICES**

**OVERVIEW**

The Division of Student Services and Enrollment Management at MWCC offers an extensive array of support services and programs to enhance each student’s academic, career, and personal development. These services include academic advisement, financial aid, records, transfer guidance, job placement, career planning, personal counseling, student life, health and wellness center, and services for students with disabilities. Students are encouraged to become thoroughly familiar with these resources and to use them as often as they wish.

**Vision**

Student Services is a mutually committed team of student affairs professionals dedicated to excellence, innovation, and appreciation of diversity. In partnership with campus colleagues, we contribute to students’ successful educational experience, support an actively engaged and diverse student body, and challenge students to become leaders in their community and the world.
Mission
Student Services advances the College’s mission by facilitating student learning and development for maximizing academic and personal success. We create a positive, inclusive, and challenging learning environment that encourages self-motivation and fosters leadership development and life skills. Through engagement with our essential services and programs that promote the intellectual, physical, and emotional well-being, our students transform their potential to match their highest aspirations.

Values
We value a student-centered community where:

- education and advancement are open to all learners who dedicate themselves to identifying their personal goals and challenges and strive to achieve their maximum potential;
- collaboration exists in the spirit of teamwork, learning, and creativity;
- communication is respectful, open, and continuous;
- integrity guides our sense of honesty, fairness, and compassion;
- diversity and inclusion are embedded in our work;
- innovative processes bring about the advancement of knowledge;
- personal growth, and sustainable change; and
- excellence is achieved through best practices, knowledge, and demonstrated expertise.
CAREER SERVICES

Career Services are offered to students seeking full-time, part-time and temporary employment by providing job search skill-building seminars and one-on-one sessions on resume building and cover letters, interviewing skills, professional portfolio preparation, and experience navigating a job fair. Local employers share job openings, which are distributed online and through BlackBoard. Employers visit campus weekly during the academic year, offering a variety of major specific and general job opportunities. An annual job fair is held in the spring, providing students with an opportunity to meet face-to-face with employers and to discuss potential job opportunities. For assistance with the job search process, including resume and interview preparation, and learning how to utilize the online job posting system, please stop by Gardner Campus Room 135 or call the Coordinator of Career Services at 978-630-9254.

SERVICES FOR STUDENTS WITH A DIAGNOSED DISABILITY

At MWCC we are committed to providing quality services to all students. Students with a diagnosed disability are entitled to receive services that promote academic success in their college experience. Under the mandates of the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, any individual who has an impairment that substantially limits one or more major life activities such as seeing, hearing, learning, or walking; has a record of such impairment; and/or is regarded as having such impairment is ensured to have equal access and opportunities for success.

Qualified persons with documented disabilities have the right to receive reasonable accommodations that will facilitate full participation and inclusion in courses, examinations, and activities related to their educational and co-curricular experience. Approved accommodations depend upon the particular disability and are granted for the classroom and/or testing setting. Accommodations may include the use of assistive technology, electronic textbooks, audio recording of lectures, note taking, priority seating, reserved parking, ASL interpreting services, extended time for testing, and/or a low distraction setting for testing. A team of qualified professionals is available to every student who voluntarily discloses a disability. To request information and/or for disclosure procedures, contact the Coordinator of Disability Services at 978-630-9330.

Adaptive Lab Services

Reasonable accommodations for students with a diagnosed disability are provided after disclosure and approval from the Coordinator of Disability Services. Procedures for accessing accommodations are provided when students present a disclosure letter with recommendations of out of classroom testing and/or the use of adaptive technology.

HEALTH SERVICES

Health and Wellness services are provided by the college nurse/health services coordinator. MWCC Health Services is open Monday through Friday, 7:30 a.m.– 4:00 p.m. at the Gardner Campus. The nurse is available for walk-in visits and by appointment. Nursing assessment and education are provided. Referrals are made to appropriate health care providers. The staff offers holistic health care that is respectful of each individual’s mind, body, and spirit.

ICONNECT

iConnect (http://iconnect.mwcc.edu) is MWCC’s student portal, featuring announcements and a college events calendar. A student uses an MWCC username and password to access the portal. Students without a username and password may obtain credentials by visiting iConnect’s login screen. This same username and password grant access to iConnect, on-campus computers, and the student wireless network, as well as the following student systems with a single sign-on.

Student email is provided via Google’s Gmail. A student’s email address is the student’s username@mwcc.edu; and the email account is accessible from iConnect. It is important that students check for new email messages regularly, as faculty and staff communicate with students through the MWCC email accounts.

WebConnect is part of the MWCC student information system, where students may register for classes, learn about financial aid awards, check class schedules, view grades, request transcripts, pay bills, and more.

Blackboard is the student learning system. This is where instructors post class information, such as the class syllabus, assignments, and documents. It also contains class discussion boards, as well as other learning-related resources. Not all instructors use Blackboard. If a student does not see a course listed in Blackboard, the student should contact the instructor to ask if Blackboard is being used for the course.

AwardSpring is MWCC’s one-stop scholarship application site. A student can complete the convenient application once and automatically be entered into the applicant pool for all of the MWCC scholarships for which the student qualifies.
MENTAL HEALTH COUNSELING

Licensed mental health professionals are available to support and assist students as they cope with personal difficulties that may be interfering with their academic progress. Counseling staff offers crisis intervention, psychoeducational programming, and outreach workshops. Counseling is confidential, short-term, goal-oriented, and free of charge. Personal counselors can also assist students with referrals to outside services in cases where extended therapy or specialized assistance is required. Consultation to faculty, staff, and students is also provided. Please call 978-630-9568 to schedule an appointment.

STUDENTS SOS OFFICE

Students Serving Our Students (SOS) is a student-led program offered at MWCC to help students stay in college. Volunteer student mentors are trained to help fellow students address the challenges students encounter that impact their ability to succeed in college.

Student mentors provide information, referrals and support completing applications for issues with:

- Transportation
- Childcare
- Utilities
- Housing
- Food Insecurity, etc.

Student mentors refer students to existing community organizations and resources that have programs to address the individual student's needs. For more information about becoming a mentor or if you are in need of support, please visit the SOS Office in Room 152 (the Brewer Center) at the Gardner campus, call 978-630-9255, or visit our website (https://mwcc.edu/campus-life/brewer-center/pantry/).

'FOOD FOR THOUGHT' CAMPUS PANTRY

The Food for Thought Campus Pantry is located at the Gardner Campus in room 192, and provides snacks, prepackaged meals and other shelf-stable food items to students in need. Students who are unable to visit the pantry during open hours may visit the Students SOS Office in room 152 (the Brewer Center) at the Gardner Campus, call the SOS Office at 978-630-9255, or email us at foodpantry@mwcc.mass.edu to schedule a more convenient time.

The pantry schedule is subject to change based on the academic calendar and availability of volunteers.

Students may walk in, or may be referred by campus departments. The pantry is available to any student enrolled in at least one credit-bearing course at MWCC. No proof of income is required. Students may receive a total of 20 items each month, but may qualify for additional support from the Gardner Community Action Committee for students who reside in: Gardner, Templeton, Westminster, Ashburnham and Hubbardston.

Students at the Leominster, Devens and Fitchburg campuses are also eligible for support. The Leominster campus has a student volunteer bringing food from the Gardner pantry to Leominster at least once a week. Devens and Fitchburg students should contact the SOS Office at 978-630-9255 to make an appointment.
TRIO STUDENT SUPPORT SERVICES PROGRAMS

Mount Wachusett Community College has two TRIO Student Support Services (SSS) programs funded by the U.S. Department of Education. In accordance with TRIO eligibility requirements, the programs provide services to students from families where neither parent has earned a four-year degree, who have documented disabilities, or who come from limited-income backgrounds. The programs are designed to help students persist in college until graduation and to assist those who wish to transfer to a four-year institution. The programs are:

**Rx Program:** This program is designed to specifically help eligible students pursuing a career in a health science major and accepts a maximum of 120 students every year.

**Visions Program:** This program is designed for all other majors and accommodates a maximum of 300 students.

Both programs offer intensive, personalized support to students. Services include academic, personal, and transfer counseling; professional tutoring; study skills and life skills seminars; faculty feedback; career awareness counseling; access to a computer lab; supplemental instruction; and learning disability services.

Motivated students who meet at least one of the eligibility criteria and are in need of academic support are strongly encouraged to apply. For an application and additional information, please call 978-630-9297 or visit MWCC TRIO Student Support Services (http://catalog.mwcc.edu/studentresources/studentservices/20http://mwcc.edu/triosss/).
VETERANS

Mount Wachusett Community College (MWCC) is located in proximity of a reserves forces training area and two USAF bases. The college works closely with numerous veteran organizations that serve thousands of veterans in the region. MWCC provides service and support to over 200 Military Service Members, National Guard, Reservists, Veterans and their families.

As soon as priority registration opens for any semester, veterans can register for classes even if they are not returning students.

In 2010, the college established the Center of Excellence for Veteran Student Success (Veterans Success Center) to address the unique academic, financial, physical, and social needs of veterans transitioning to college. The center provides outreach, referrals, admissions and transfer assistance, veterans’ benefits and financial aid assistance, veteran orientation, supportive advising assistance with a veteran advisor, coordinated study groups, a faculty mentoring program, and a textbook loan program to assist veterans struggling with delayed veteran educational benefits. In addition, the Veterans Center is working to educate all service providers at the college on the unique needs of its veteran student population. MWCC officially endorses the Department of Education’s “8 Keys to Veteran Success” (https://www.ed.gov/veterans-and-military-families/8-keys-success-sites/). Mount Wachusett Community College complies with Section 702 policy (regarding in-state tuition) for public IHL’s. MWCC also complies with Section 103, PL115-407 and the requirements of 38 USC 3679(e). Veteran students are given priority registration status and will be permitted to register as soon as enrollment opens.

As a result of these efforts, Mount Wachusett Community College has officially been named a Military Friendly College for several years in a row and placed in the top ten nationally among two-year Military Friendly schools.

The Center can be reached at 978-630-9408 or 978-630-9855.

To be eligible for veteran tuition waivers:

• Student must be enrolled in an associate’s degree or certificate program.

• Student must be taking credit courses.

• Must have an honorable discharge from Military Service.

• Provide a copy of your DD214.

The Vietnam Veteran waiver and the Massachusetts National Guard Tuition and Fee Assistance Program will apply to state and non-state supported tuition. All appropriate fees must be paid.

Semester Requirements for Ch33 and Ch31 veterans due prior to the start of classes.

1. Ch33 and Ch31 veterans must give us a current version of your DD214.

2. Ch33 veterans (and dependents using Ch33 benefits) must bring us a copy of your Certificate of Eligibility from the VA. A printout of your e-Benefits statement is acceptable.

3. Ch31 veterans must provide us a copy of VAF 22-1905 or electronic equivalent from their case manager.

4. Ch33 students with less than 100% benefits are responsible for whatever portion of tuition and fees their benefits do not cover. Applying for financial aid is encouraged.

5. Ch33 and Ch31 students must bring Veteran Services a copy of their schedule for evaluation and to initiate the certification process. If certification is not requested, be sure to bring us the student schedule with a note requesting us not to certify. When signing up for classes, be sure to choose classes that apply to the student’s major. GI Bill benefits can only be used for classes that apply to a specific program/major the student is enrolled in.

6. Massachusetts veterans should fill out and sign a Mass Tuition Waiver: http://mwcc.edu/admissions/files/2013/01/Categorical-Tuition-Waiver-Approval-Form.pdf. If the form is not completed, $25 for every credit taken will be applied to the student’s invoice. (i.e. 3-credit course: $75).

7. All students must fill out Health Insurance Waiver (unless you already have this current school year): https://www.gallagherstudent.com/students/user-login.php?idField=1198. If the student does not, approximately $2400- will be added to the student’s invoice for college health insurance.
If the above steps are accomplished prior to the start of classes for the semester, Ch33 and Ch31 students will be able to attend classes for the term. Moreover, Ch33 and Ch31 students will not incur any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual’s inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under chapter 31 or 33.

VALOR ACT ACADEMIC CREDIT EVALUATION POLICY

Mount Wachusett Community College demonstrates its commitment to veterans seeking to pursue postsecondary through its policies, practices and services. Consistent with the Massachusetts Valor Act signed into law on May 31, 2012, the college has established the following policies to support veteran students in their educational and professional endeavors:

MWCC will award academic credit for matriculated students for prior learning based on students’ previous military occupation, military training, coursework and experiences as these credits apply to their declared program of study.

MWCC will determine the award of academic credit during the admissions process through a preliminary review and a final conclusive and comprehensive credit evaluation upon the submission of official transcripts (https://jst.doded.mil/smart/signIn.do), official standardized test score reports and other relevant documentation prior to a student's enrollment. The required procedures for determining awarding credit for military occupation, experience, training and coursework shall be clearly described and published to provide transparency to prospective students.

PROCEDURES

Prospective or currently enrolled students seeking to receive college credit for prior learning based on past military occupation, training, experience or coursework should begin the process by the timely submission of official transcripts and documentation to the Records Office in advance of the start of classes.

Once official documentation is received, the college will use the following methodologies to assess, evaluate and award academic credit for prior military-related experiences:
• ACE Guide to the Evaluation of Educational Experiences in the Armed Services
• CLEP Examinations
• DANTES Subject Standardized Tests
• Credit for prior learning evaluation as described in the MWCC Prior Learning Policy

Credits awarded by the college for prior learning based on military experiences will be recorded on the native MWCC academic transcript and applied towards degree or certificate requirements consistent with all other MWCC academic policies. Credits transferred as part of the MassTransfer Block will be honored consistent with the terms of this agreement.

When certifying a transferring or graduating student for purposes of MassTransfer, these credits shall be included in this review and submitted to the receiving institution for its use in facilitating the transfer process.

**CAMPUS CONTACT**

The Director of Veterans Services (978-630-9408) shall serve as the initial point of contact for purposes of the Valor Act Credit Evaluation Policy. The Veteran’s Services department can provide academic advising and counseling in advance to or during the student’s admission to the college. The Records Office will complete the credit evaluation process once official documents are received and consistent with the process described herein.

The Valor Act Academic Credit Evaluation Policy is published on the college’s website as well as the college’s print publications including the College Catalog and Student Handbook and other Veteran Services publications.

**DEPLOYMENT POLICY (P. 77)**

*Amended: December 31, 2019*
ADULT BASIC EDUCATION, WORKFORCE DEVELOPMENT & NONCREDIT COURSES

Regional Adult Education and Training
The Regional Adult Education and Training Center at Mount Wachusett Community College offers free classes in basic literacy, numeracy, and workplace readiness for both the GED and HiSET high school equivalency exams. MWCC also offers three levels of English for Speakers of Other Languages (ESOL). The MWCC Adult Education and Training program also offers courses that combine preparation for either high school equivalency exam or ESOL classes with occupational training in Healthcare. Adult Education and Training classes are offered in Devens, Gardner, and Leominster in both day, evening, and hybrid formats. Enrollment periods are regularly scheduled on a monthly basis and include information sessions, individual enrollment counseling, and group orientations prior to the start of classes.

For more information on specific location course offerings, please contact the Adult Education and Training Enrollment Office on the Leominster Campus at 978-630-9831, or visit MWCC’s Regional Adult Education Center (https://mwcc.edu/academics/noncredit/aet/).

Many Adult Education and Training classes are made possible by grants received by the Massachusetts Department of Elementary and Secondary Education and the MassHire North Central Massachusetts Workforce Development Board.

Workforce Development
Workforce Development offers the North Central Mass region learning opportunities and programs designed to strengthen the workforce by preparing individuals through technical and soft skills training. MWCC’s Workforce Development trainings cover a wide range of businesses and industries including (but not limited to) manufacturing, financial, healthcare, food service, and hospitality. Trainings offer industry-recognized credentials and certifications, preparing students for employment and/or promotion. Customized trainings can be tailored to suit specific needs identified by an employer and can be delivered on-site or at one of the MWCC campuses. For information about services and potential grant funding, contact the Director of Workforce Development at 978-630-9569 or visit MWCC Workforce Training (https://mwcc.edu/academics/noncredit/workforce/).

Noncredit Courses
MWCC offers other noncredit courses that enhance your home, work, and personal life. Classes are offered days, evenings, or online. Browse our noncredit course offerings (http://mwcc.3dcartstores.com/) or download a current noncredit bulletin (http://mwcc.edu/continuing/). For more information, please call 978-630-9421.
SERVICE LEARNING

Service learning is a teaching and learning strategy designed by faculty to contextualize classroom learning and to provide much needed volunteer services to our community partners. Service learning offers students the opportunity to develop and refine 21st century job readiness skills, such as critical and creative thinking; collaboration; communication; and interpersonal skills. It also reinforces the theoretical learning occurring in the classroom in a way that provides “real world” context. Service learning is different than volunteerism. The service learning experience is closely tied to course learning objectives and students receive academic course credit for their efforts.

Students who complete 20+ hours of service learning are awarded a commemorative pin, and students who complete 40+ hours of service learning are awarded a service medallion to wear at graduation. Students who perform 100 + hours of service receive a certificate of congratulations from President James Vander Hooven. Service learning is accrued over the student’s entire course of study at MWCC and is recognized at graduation. Service learning is required in some courses, and optional in others. It is at the individual faculty member's discretion as to whether service learning is an option in any given course. Most courses with service learning are tagged in the registration system as either “SLR” (service learning required) or “SLO” (service learning optional). An academic advisor may assist in finding courses with the option that is right for an individual student. Once a student has identified and obtained approval for a service opportunity, and has submitted all required documentation to the Brewer Center, the student is responsible for reporting all hours completed through GivePulse, which can be found on iConnect. Faculty and advisors are responsible for verifying hours reported by each student.

For more information about service learning (https://mwcc.edu/campus-life/brewer-center/for-students/recognition/), please visit The Senator Stephen M. Brewer Center for Civic Learning and Community Engagement (the Brewer Center) in room 152 at the Gardner Campus, or visit the website (https://mwcc.edu/campus-life/brewer-center/).

Community Service and Volunteerism

As the catalyst that can spark lifelong commitment to the community, service and volunteerism are at the core of the civic engagement movement at Mount Wachusett Community College. In collaboration with the MWCC Student Life Office and a wide variety of community partners, a diverse range of service opportunities are offered for community-minded individuals and groups each year. The Brewer Center assists in connecting interested individuals or groups with nonprofits in the region looking for support or volunteerism. Projects take place both on and off campus. Volunteerism completed through a Student Club or through an activity sponsored by MWCC, such as Alternative Spring Break, will be noted on a student’s academic transcript.

For more information, visit the student page of the Brewer Center’s website (http://mwcc.edu/democracy/students/).

For additional information about Service Learning and Volunteerism, visit the Brewer Center’s FAQ page (https://mwcc.edu/campus-life/brewer-center/for-students/faqs/).
POLICIES, RULES, AND Regulations

- Affirmative Action (p. 428)
- Animals on Campus (p. 459)
- Campus Sexual Misconduct, Relationship Violence and Stalking Policy (p. 383)
- Campus Solicitation Policy (p. 394)
- Drug and Alcohol Policies Applicable to MWCC (p. 394)
- Family Educational Rights and Privacy Act (FERPA) (p. 399)
- Hazing (p. 401)
- Inclement Weather and Emergency Closing Policy (p. 402)
- Information Technology General Acceptable Use Policy (p. 403)
- Massachusetts Trespass Act (p. 410)
- Policy on Student Expression (p. 410)
- Record Keeping/Destruction of Records (p. 410)
- Regulations & Policies on Human Research Subjects (p. 411)
- Student Code of Conduct (Disciplinary & Grievance Procedures) (p. 412)
- Suicide Protocol and Policy (p. 459)
- Tobacco-Free Facility Policy Statement (p. 425)
- Appendices (p. 426)
CAMPUS SEXUAL ASSAULT POLICY

I. Campus Sexual Misconduct, Relationship Violence, and Stalking Policy

Mount Wachusett Community College is committed to providing an atmosphere for learning that is free of any conduct that could be considered harassing, abusive, disorderly, discriminatory or criminal. Sexual misconduct (including various categories of sexual assault), domestic violence, dating violence, and stalking violate Federal Civil Rights law and may be subject to college disciplinary sanctions and/or criminal prosecution. MWCC is committed to fostering a community that promotes prompt reporting of sexual misconduct, domestic violence, dating violence, and stalking in any form and the timely and fair resolution of complaints.

Sexual Misconduct as defined by Title IX is the actual or attempted:

1) Sexual harassment
2) Non-consensual sexual intercourse
3) Non-consensual sexual contact
4) Sexual exploitation

All complaints/violations are subject to the Commonwealth’s Policy on Affirmative Action, Equal Opportunity, and Diversity for Massachusetts Community Colleges as amended December 9, 2014 and reissued March 15, 2015. The Campus Sexual Assault Policy supplements the Commonwealth’s policy relative to MWCC specific information and as required to be published pursuant to the Crime Awareness and Campus Security Act of 1990 (Clery Act). It should be referenced in tandem with the Commonwealth’s policy. In the event of conflict between the MWCC policy and the Commonwealth’s policy, the Commonwealth’s policy shall be controlling.

Sexual assault includes forcible and non-forcible offenses as classified under the Uniform Crime Reporting (UCR) system of the Federal Bureau of Investigation pursuant to the Clery Act; including acquaintance rape.

As a recipient of Federal funds, MWCC is required to comply with Title IX of the Higher Education Amendments of 1972, 20 U.S.C. s. 1681 et seq. (Title IX), which prohibits discrimination on the basis of sex in education programs and activities. Sexual misconduct is defined as a form of sexual discrimination prohibited by Title IX.

Creating a safe and respectful environment is the responsibility of all members of the MWCC community: students, faculty, staff, and guests. In order to assure that the college meets its obligation to all members of the college community, the college maintains procedures and programs for coordinated response to reports of sexual misconduct, domestic violence, dating violence, and stalking. Copies of these procedures are available in the Department of Human Resources and Affirmative Action and online via iConnect https://iconnect.mwcc.edu/web/mycampus/home (see “Department & Offices / Human Resources / Policies).

Reports of sexual misconduct (including, but not limited to; sexual and gender harassment, sexual violence, sexual assault, sexual exploitation, and sexual discrimination), domestic violence, dating violence and stalking are reported to the Title IX Coordinator (Commonwealth’s Policy p.18). A Title IX investigation will be initiated pursuant to the Commonwealth’s policy in appropriate circumstances whether or not the issue is the subject of a criminal investigation as determined by the Title IX investigator or his/her designee. The Title IX investigation is separate from any criminal investigation but may run simultaneously. A dual investigation may ensue. An ongoing criminal investigation, however, may not delay the investigation under Title IX. The standard of proof used for Title IX investigations is the preponderance of the evidence standard. The standard of proof used for criminal (police) investigations is the probable cause standard. As such, the disposition of a case may be different under each investigation. Information regarding Title IX grievance procedures can be found in the Commonwealth of Massachusetts, Board of Higher Education, Massachusetts Community College Policy on Affirmative Action at this link: http://www.mass.edu/forfacstaff/affirmativeaction/documents/CC_EqualOpportunityPlan(2015).pdf

Reporting requirements and policies include incidents which occur during approved school sponsored events (on or off campus) and incidents that occur while travel using school sponsored transportation.

i. Policy

Sexual assault is a criminal offense. Sexual assault in any form, including acquaintance rape, will not be tolerated. Sexual assault, as defined in the Federal Bureau of Investigation’s Uniform Crime Reporting System and as cited in the Clery Act includes forcible and non-forcible offenses. The aiding or assisting in the commission of an act of violence is prohibited and may constitute a criminal offense subject to criminal prosecution.

Definitions
The definitions pursuant to this policy can be found in the Commonwealth’s Policy on Affirmative Action, Equal Opportunity, and Diversity pages 9-18. A partial list is provided below:

**CONSENT:** “Consent” must be informed, voluntary, and mutual, and can be withdrawn at any time. There is no consent when there is force, expressed or implied, or when coercion, intimidation, threats, or duress is used. Whether a person has taken advantage of a position of influence over another person may be a factor in determining consent. Silence or absence of resistance does not imply consent. Past consent to sexual activity with another person does not imply on going future consent with that person or consent to that same sexual activity with another person.

If a person is mentally or physically incapacitated or impaired so that such person cannot understand the fact, nature, or extent of the sexual situation, there is no consent; this includes impairment or incapacitation due to alcohol or drug consumption that meets this standard, or being asleep or unconscious.

**NOTE:** for purposes of criminal prosecution in Massachusetts, it is illegal to have sex with someone who is incapable of giving consent because they are: (a) intoxicated; (b) unconscious; (c) mentally incompetent; or (d) are under 16 years of age.

**SEXUAL HARASSMENT:** Sexual advances, requests for sexual favors, and verbal or physical conduct of a sexual nature when:

a. submission to or rejection of such advances, requests, or conduct is made either explicitly or implicitly a term or condition of employment or as a bias for employment or academic decisions; or

b. such advances, requests, or conduct have the purpose or effect of unreasonably interfering with an individual’s academic or work performance by creating an intimidating, hostile, humiliating, or sexually offensive learning or working environment.

Under these definition, direct or implied requests by a supervisor or instructor for sexual favors in exchange for actual or promised job or academic benefits constitute sexual harassment. The legal definition of sexual harassment is broad and in addition to the above examples, other sexually oriented conduct, whether it is intended or not, that is unwelcome and has the effect of creating a work or educational environment that is hostile, offensive, intimidating, or humiliating to another may also constitute sexual harassment. While it is not possible to list all those additional circumstances that may constitute sexual harassment, the following are some examples of conduct, which if unwelcome, may constitute sexual harassment depending upon the totality of the circumstances including the severity of the conduct and its pervasiveness:

1. Unwelcome sexual advances – whether they involve physical touching or not;

2. Repeated, unsolicited propositions for dates and/or sexual intercourse;

3. Sexual epithets, jokes, written or oral references to sexual conduct, gossip regarding one’s sex life; comment on an individual’s body, comment about an individual’s sexual activity, deficiencies, or prowess;

4. Displaying sexually suggestive objects, pictures, cartoons;

5. Unwelcome leering, whistling, brushing against the body, sexual gestures, suggestive or insulting comments;

6. Verbal harassment or abuse on the basis of sex;

7. Inquiries into another person’s sexual activities, practices, or experiences;

8. Discussion of one’s own sexual activities, practices, or experience.

**SEXUAL VIOLENCE:** Sexual violence refers to physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent (e.g., due to the person’s age or use of drugs or alcohol, or because of intellectual or other disability prevents the person from having the capacity to give consent). A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, sexual abuse, and sexual coercion. Sexual violence can be perpetrated by employees, students, or third parties. All such acts of sexual violence are forms of sex discrimination and are prohibited by Title IX.

1. **Rape** – Defined by the Federal Bureau of Investigation as follows: The penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the consent of the victim.

   • **NOTE:** for purposes of criminal prosecution Rape is defined in Massachusetts as the oral, anal, or vaginal penetration by an inanimate object, penis, or other bodily part without consent.

2. **Sexual Assault** – Actual or attempted sexual contact with another person without that person’s consent. Sexual assault includes, but is not limited to:

   a) **Fondling** – The touching of the private body parts of another person for the purpose of sexual gratification, without the consent of the victim, including instances where the victim is incapable of giving consent because of his/her age or because of his/her temporary or permanent mental incapacity.
b) **Incest** – Sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law; and

c) **Statutory Rape** – Sexual intercourse with a person who is under the statutory age of consent.

• NOTE: for purposes of criminal prosecution, in Massachusetts the statutory age of consent is 16 years of age.

3. **Sexual Exploitation** – Occurs when a person takes sexual advantage of another person for the benefit of anyone other than that person without that person’s consent. Examples of behavior that could rise to the level of sexual exploitation are defined in the Commonwealth’s Policy on Affirmative Action, Equal Opportunity, and Diversity.

4. **Intimate Partner Violence**

   a) **Stalking** – Engaging in a course of conduct directed at a specific person that would cause a reasonable person to: fear for the person’s safety or the safety of others; or suffer substantial emotional distress. For the purposes of this definition, “course of conduct” means two or more acts, including, but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person’s property. For the purposes of this definition, “substantial emotional distress” means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

   • NOTE: for purposes of criminal prosecution, stalking is defined in Massachusetts as whoever (a) willfully and maliciously engages in a knowing pattern of conduct or series of acts over a period of time directed at a specific person which seriously alarms or annoys that person and would cause a reasonable person to suffer substantial emotional distress, and (b) makes a threat with the intent to place the person in imminent fear of death or bodily injury, shall be guilty of the crime of stalking.

   b) **Dating Violence** – Violence committed by a person: (a) who is or has been in a social relationship of a romantic or intimate nature with the victim; and (b) where the existence of such a relationship shall be determined based on a consideration of the following factors: (1) the length of the relationship; (2) the type of relationship; (3) the frequency of interaction between the persons involved in the relationship. For the purposes of this definition dating violence includes, but is not limited to, sexual or physical abuse or the threat of such abuse. Dating violence does not include acts covered under the definition of domestic violence.

   c) **Domestic Violence** – A felony or misdemeanor crime of violence including, but not limited to, attempting to cause or causing physical harm; placing another in fear of imminent serious physical harm; or causing another to engage involuntarily in sexual relations by force, threat or duress, which is committed by (a) a current or former spouse or intimate partner of the victim; (b) a person with whom the victim shares a child in common; (c) a person who is cohabitating with, or has cohabitated with, the victim as a spouse or intimate partner; (d) a person similarly situated to a spouse of the victim under the domestic or family violence laws of the jurisdiction in which the crime of violence occurred, or € any other person against an adult or youth victim who is protected from that person’s acts under the domestic or family violence laws of the jurisdiction in which the crime of violence has occurred.

   • NOTE: in Massachusetts Domestic and Dating Violence are governed by Massachusetts General Laws, Chapter 209A, Section 1 as the occurrence of one or more of the following abusive acts between family or household members: (a) attempting to cause or causing physical harm; (b) placing another in fear of imminent serious physical harm; (c) causing another person to engage involuntarily in sexual relations by force, threat or duress. “Family or household members” include persons who: (a) are or were married to one another; (b) are or were residing together in the same household; (c) are or were related by blood or marriage; (d) having a child in common regardless of whether they have ever married or lived together; or € are or have been in a substantive dating or engagement relationship, which shall be adjudged by a court upon considering the following factors: (1) the length of time of the relationship; (2) the type of relationship; (3) the frequency of interaction between the parties; and (4) if the relationship has been terminated by either person, the length of time elapsed since the termination of the relationship.

**TITLE IX COORDINATOR:** A college employee assigned the responsibility for maintaining the college’s compliance with Title IX. The Title IX Coordinator is responsible for administering this Policy and its complaint procedure (pursuant to the Commonwealth’s Policy on Affirmative Action, Equal Opportunity, and Diversity) concerning all Title IX offenses. The Title IX Coordinator may also serve as the college’s Affirmative Action Officer. If these positions are held by different individuals, the AAO and the Title IX Coordinator should not have other job responsibilities that may create a conflict of interest. For example, serving as the Title IX Coordinator and a disciplinary hearing board member or general counsel may create a conflict of interest. There may also
Victim: A person who reports being subject to an alleged act of sexual violence.

**NOTE:** for purposes of the MWCC Sexual Misconduct, Relationship Violence, and Stalking policy, the word “survivor” will be substituted for the “victim”.

There are many crimes under Massachusetts General Laws (M.G.L.’s) that are encompassed by this policy. For purposes of criminal prosecution the facts of the case will determine the appropriate criminal charges. For purposes of reporting relative to the Jeanne Clery Act in the Annual Security Report, reporting will be in keeping with the recommended definitions required by the Clery Act. For purposes of a Title IX investigation, the definitions and procedures of the Commonwealth’s Policy of Affirmative Action, Equal Opportunity, and Diversity will be applied.

The Crime Awareness and Campus Security Act of 1990, Section 485 (f) (1) (F) of 20 U.S. C. 1092 (a) (1) (Public Law 1010-542) required that the college collect information with respect to sexual assault on campus and, beginning in September 1993, to include such information in an Annual Security Report. The Higher Education Amendments of 1992 (Public Law 102-325) provided further that, as part of the Annual Security Report, the college shall include, develop, and distribute a statement of policy regarding the college’s sexual assault prevention programs and the procedures to be following in the event that a sex offense has occurred. The Clery Act and Title IX procedures and subsequent amendments further outline necessary elements to be included in the Sexual Misconduct, Relationship Violence and Stalking Policy and Annual Campus Security Report.

**ii. Criminal Offense Procedures and Student Code of Conduct Policy**

When an allegation of sexual assault, domestic violence, dating violence or stalking is made, the college will inform the alleged survivor as to his or her rights to pursue criminal prosecution under the Massachusetts criminal statutes. Sexual assault, domestic violence, dating violence, and stalking violations may include, in addition to criminal charges, disciplinary sanctions. Cases involving students, staff, and/or faculty will also be referred to the Title IX Coordinator and cases involving students will additionally be referred to the Dean of Students. Disciplinary sanctions and the Student Code of Conduct policy are published separately in the MWCC handbook. Possible sanctions include: verbal or written warnings, restrictions/loss of privileges, community educational service, restitution, probation, suspension and/or expulsion or any combination of the above.

When an allegation of domestic violence, dating violence, or stalking is reported to an MWCC police officer, the officer will investigate the incident and if probable cause exists, will take appropriate legal action, including arrest of the perpetrator or if unable to effectuate an arrest, filing a warrant application with the court of jurisdiction prior to the end of the officers’ tour of duty. MWCC police officers will aid the individual in notifying the appropriate authorities if the individual requests their assistance. The survivor’s safety is paramount to any decision to make an arrest and the officer will take all reasonable steps to ensure the safety of the survivor prior to taking action. The officer will further advise the survivor regarding options to obtain restraining order or harassment order, if applicable and will provide necessary assistance in obtaining the order. The MWCC Police and Public Safety Department has adopted and follows the guidelines provided in the Massachusetts Domestic Violence Law Enforcement Guidelines of 2017 issued by the Commonwealth of Massachusetts Executive Office of Public Safety and Security (EOPSS). All officers receive annual legal updates and Domestic Violence Response training as required by the Massachusetts State Police Certification Unit which is the governing authority responsible for approving Special State Police Licenses of MWCC police and public safety personnel and which provides the standards of training.

All incidents of a criminal nature are investigated by a trained and certified police officer. Security officer, if any may assist a certified police officer, as appropriate, by may not be assigned as the investigating officer. Security officers may be assigned to non-criminal investigations and assignments.

In the case that the report of domestic violence, dating violence, or stalking is reported to the Title IX Coordinator or the MWCC Dean of Students, the survivor will be advised of their right to report the incident to MWCC law enforcement officers and/or local or state police. MWCC police officers will provide the survivor with the Abuse Persons Notice of Rights and will provide information regarding how to obtain a restraining or harassment order through the courts and/or emergency procedures for after hours, via the local police. MWCC police officers will assist the survivor with this process however possible. If the report is first made to the MWCC police officer, the officer will also provide information on reporting to the Title IX Coordinator.

All allegations of sexual misconduct (including sexual assault), domestic violence, dating violence, and stalking will be handled confidentially to the extent provided by law and will be investigated. The disciplinary and law enforcement investigations are interrelated, and may occur simultaneously, and may involve the sharing of information and resources. However, both investigations
involve separate procedures and standards of proof and one process does not depend on the other process and may continue separately. Both the accuser and the accused will have equal opportunity to appeal disciplinary sanctions under due process.

Title IX investigations will be conducted by officials who receive annual training on the issues related to domestic violence, dating violence, sexual assault, and stalking and how to conduct an investigation and hearing process that protects the safety of victims and promotes accountability.

As a public institution, the college must provide due process to students accused of sexual misconduct, domestic violence, dating violence, and stalking while also ensuring the complainants protections under Title IX and other applicable laws of the Commonwealth. The disciplinary hearing shall take place as soon as possible after the filing of the initial report taking into consideration the need to conduct a timely investigation. Proceedings will provide a prompt, fair, and impartial investigation and resolution.

The campus student disciplinary procedures are clearly defined in the Mount Wachusett Community College Code of Conduct published annually online and in the College Catalog and Student Handbook. Sexual offenses and sexual assault are addressed specifically in the policy consistent with the Sexual Misconduct, Relationship Violence and Stalking Policy described herein, and the Commonwealth Policy on Affirmative Action, Equal Opportunity, and Diversity. The policies address alleged offenses regardless of where the offense occurred. A survivor cannot be required to sign a nondisclosure agreement or to otherwise agree to a prohibition from discussing the case.

- The accuser and the accused have the same right and opportunity to have others present (in support and advisory roles) during a campus disciplinary hearing;
- Notification of the final results to both the accuser and the accused will be made in writing in the same manner and in the same time frame. This notification does not constitute a violation of the Family Educational Rights and Privacy Act (FERPA). The outcome of a disciplinary proceeding means only the college’s determination with respect to the alleged offense and any sanction that is imposed against the accused.
- In the case that an alleged survivor/accuser dies as a result of a crime, the alleged accuser’s next of kin will be notified of the results of any disciplinary proceedings.

iii. Awareness and Prevention

The college endeavors to educate its students, faculty, and staff about the issue of sexual misconduct (including sexual assault and date/acquaintance rape, domestic violence, dating violence, and stalking). The MWCC Police and Public Safety Department, the MWCC Health Services office and the MWCC Student Life office feature educational programming throughout each academic year that highlight preventative measures to be taken to reduce the risk of sexual misconduct, domestic violence, dating violence, and stalking. Instructional programs cover subjects such as avoiding alcohol abuse and illegal drug use; promoting safe dating; domestic violence and dating violence awareness and prevention; and stalking awareness. Additionally, the college has been a community leader in offering training in Rape Aggression and Defense (RAD) techniques to women on campus and in the local community. This training is offered throughout the year and may be scheduled upon request by contacting the MWCC Police and Public Safety Department (978) 630-9150.

1. Security and Maintenance Measures

1. Mount Wachusett Community College will periodically examine its grounds and facility practices from a security perspective. It will assess outdoor facilities and major campus pathways with respect to lighting, plant growth and debris that may materially detract from security via regular patrols on the Gardner, Leominster, and Devens Campuses. Issues will be reported to the Facilities Department serving each campus respectively. A survey is conducted annually on the Gardner Campus by a member of the MWCC Police and Public Safety Department and is provided to the MWCC Facilities and Maintenance Department for review and response. Beginning in 2018, the MWCC police also conducted surveys of the Leominster and Devens Campuses. Results regarding surveys for the satellite campuses will be provided to the Administrator in charge of the campus who may contact the landlord/facilities department for that respective campus.

2. Mount Wachusett Community College has installed emergency telephones in strategic hallway locations on the Gardner, Leominster, and Devens Campuses as well as four outside locations on the Gardner campus (See Policy for the Accurate and Prompt Reporting of Criminal Offenses and Emergency Contact Information in the Annual Security Report). Phones are available in the administrative offices of the Fitchburg Campus.

3. Mount Wachusett Community College will maintain and monitor procedures to ensure that access to offices, buildings, and master keys are adequately and appropriately restricted. Master keys will only be issued on the basis of clearly defined needs and within the procedural policies of the college.
4. Mount Wachusett Community College provides a safety escort service for students and employees twenty four hours a day, seven days per week on the Gardner Campus by request. This service is available on a limited basis on the Leominster and Devens campuses when a WMCC police or security officer is on duty. Currently a WMCC police and public safety officer is on duty approximately 3-4 hours on each satellite campus. The duty hours on satellite campuses may vary depending on need, emergencies, and current campus schedules. MWCC does not provide any security services on the Fitchburg Campus.

5. Mount Wachusett Community College has an established pattern of effective communications and relations with state and local police. Although there is no formal M.O.U. between departments, Mount Wachusett Community College maintains a good working relationship with state and local police departments and works jointly with the respective departments regarding major criminal investigations. MWCC officers on the Gardner Campus have direct radio communication with the Gardner Police Department. MWCC officers maintain regular contact with the appropriate law enforcement agencies regarding response to calls and investigations and work in concert with the other agencies to conduct follow up response to incidents on campus and, when appropriate, off campus, involving students, staff, or faculty, to ensure that the college remains informed regarding each campus activities and crime statistics. On all other campuses, MWCC officers communicate with local police via phone or in person on the scene. MWCC officers obtain reports as needed from respective local police agencies in order to assess the reports for follow up and support.

The key element in a comprehensive sexual misconduct, domestic violence, dating violence and stalking prevention program as well as a general crime prevention program is the maintenance of an alert and effective police and/or security presence. MWCC police and public safety officers are trained in the investigation of sexual assault, domestic violence, dating violence, and stalking/harassment prevention and response. Their general orientation will be towards positive proactive crime prevention and sensitivity to balancing law enforcement demands and the unique needs of survivors. The MWCC Police and Public Safety Department has several officers trained in sexual assault investigation. All officers are trained in domestic violence, dating violence, stalking/harassment investigation and response. A representative of the MWCC Police and Public Safety Department regularly attends the Domestic Violence High Risk Response Team meetings, a collaborative team with representative of area police departments which meets monthly to review area domestic violence cases and which monitors the cases posing highest risk to survivors.

2. Educational Programs

Because the college environment provides an excellent opportunity to educate individuals about human relations, sexual education and safety awareness information should be provided to each member of the college community.

Sexual misconduct/assault, domestic violence, dating violence and stalking education is effectively provided through programs, guest speakers, and educational literature and includes:

1. Campus Traffic and Safety brochures are provided to first year students in orientation packets twice per year. MWCC police officers provide safety and security information to special orientation groups at least twice per year.

2. Faculty and staff training/development programs, including contracted staff are provided periodically throughout the year through the Human Resources Department and/or professional development.

3. Student and employee handbooks are available at all times.

4. Campus media, i.e. newsletters, newspapers, physical and electronic bulletin boards are updated periodically throughout the year and on the MWCC police website. The MWCC Police and Public Safety Department maintains a collection of informational literature. The subject matter may vary. Information is provided to the Gardner, Leominster, Devens, and Fitchburg Campuses.

5. Seminars and workshops are offered through the student leadership academy two times per year, through classroom discussion (upon request) and through the MWCC Human Resource Department for employees.

6. Pamphlets, posters, and other literature addressing specific issues, such as sexual assault, acquaintance rape, sexual harassment, self-protection for men and women, crime reporting, and domestic violence are available at all times on the Gardner, Leominster, Devens, and Fitchburg Campuses (availability per topic may vary from time to time).

7. Self-protection classes – MWCC Police provide information to students and staff upon request

8. Individual awareness and responsibility for crime prevention and personal safety are published annually in the annual security report and periodically through publication and bulletin boards.

9. R.A.D. (Rape Aggression Defense) training is provided free or with minimal cost to students, staff, and community members. This service is offered one time per year and upon request through the MWCC Police and Public Safety Department.

10. Additional educational and guest speakers may be scheduled upon request through the MWCC Police and Public Safety Department.
MOUNT WACHUSETT COMMUNITY COLLEGE

Materials and programs are designed specifically for the Mount Wachusett Community College campus and are developed in conjunction with off-campus authorities or may be pre-published, pre-packages, or offered in conjunction with off-campus authorities, such as:

- National Safety Council;
- Local law enforcement agencies;
- Criminal justice programs;
- Pathways for Change (formerly the Rape Crisis Center of Central Massachusetts) https://pathwaysforchange.help/pfc/
- American College Health Association;
- Massachusetts Chapter of the National Safety Council

Unfortunately, in spite of all our efforts, rape or sexual assault, sexual misconduct, domestic violence, dating violence, and stalking may occur. Should any of these violations or other Clery Act crimes be reported to campus authorities, it is critically important that the survivor’s welfare be paramount and that she or he is not re-victimized by the system. This policy establishes procedures to follow in the event a violation occurs on campus. To ensure proper attention and action, these procedures must be followed.

iv. Reporting Procedures

1. Introduction

An effective response to a report or incident of sexual misconduct/assault, domestic violence, dating violence, and stalking on campus necessarily involves a number of offices and individuals concerned with the physical and emotional security of students, employees, and visitors. The procedures outlined below focus primarily on the rolls of: (1) MWCC police in addressing incidents/reports of sexual misconduct/assault, domestic violence, dating violence, and stalking; (2) Faculty, staff and students making reports; (3) The Designated College Official’s involvement in these procedures; and (4) the Title IX Coordinator’s role in policy and enforcement. The college will comply with satisfying an individual’s request for assistance in notifying the appropriate authorities in the event of a sexual offense, domestic violence, dating violence, or stalking.

2. Reporting a Sexual Assault

The first priority of a survivor of sexual misconduct/assault, domestic violence, dating violence, or stalking should be to get to a place of safety and to obtain necessary medical treatment. MWCC strongly advocates that the survivor report the incident in a timely manner. Time is critical for evidence collection and preservation, as well as to assure the medical treatment/well-being of the victim and safety of the campus community. Whenever possible, a report of an assault should be reported directly to the MWCC Police and Public Safety officer(s) on duty or to the local law enforcement agency serving the campus. In all cases whether or not the survivor chooses to report the incident, they should be referred to the hospital for medical evaluation and treatment.

The Emergency Response Guides posted in offices and classrooms on the Gardner, Leominster, and Devens Campuses and at the Montouri Auto Tech Program, and the Administrative offices of the Fitchburg Dental Program, provide the contact information for the law enforcement agency responsible for primary response to emergencies on the respective campus. This information is outlined below and on the survivor information sheet (attachment 1 in this document). Emergency response should be directed to the primary response agency for the respective campus. The MWCC Police and Public Safety officers will provide secondary response support and investigation and should be contacted as soon as possible at the Gardner Campus (978) 630-9111, 24 hours a day, and seven days per week. MWCC police officers will provide guidance, arrange for college support services, and coordinate appropriate response/investigation.

- GARDNER CAMPUS: Contact MWCC police at (978) 630-9111 from a cell phone or outside line, call extension “1111” from any campus phone or contact the MWCC Police and Public Safety Department using one of the emergency phones located throughout campus.
- LEOMINSTER CAMPUS: Contact the Leominster Police Department by calling 9-1-1 from a college or hallway emergency phone (for emergency response) or (978) 537-0741 (emergency or non-emergency response).
- DEVENS CAMPUS: Contact Mass State Police at Devens barracks by calling 9-1-1 from hallway emergency phone (for emergency response) or call (978) 772-4600 for Devens dispatch (emergency or non-emergency response).
- FITCHBURG CAMPUS: Contact the Fitchburg Police Department by dialing “9” the 9-1-1 from any internal phone for emergency response or by dialing (978) 345-9888 for dispatch.
- NON-CAMPUS PROPERTIES: Contact the local police department by dialing 9-1-1 for emergency response.
Assistance can also be obtained 24 hours a day/seven days a week through:

1. Pathways for Change (formerly the Rape Crisis Center of Central Massachusetts): (800) 870-5905
2. Office of Civil Rights (OCR): (800) 421-3481
3. MWCC Title IX Coordinator, Peter Sennett, Vice President of Human Resources and Affirmative Action, Haley Building, Room 109, 444 Green Street, Gardner, MA (978) 630-9160, during regular business hours (or after hours via MWCC Police and Public Safety Department at (978) 630-9111.
4. MWCC Designated College Official, Jason Zelesky, Dean of Students, Haley Building, Room 141A, Gardner, MA (978) 630-9136, during regular business hours (or after house via the MWCC Police and Public Safety Department).
5. SafeLink (Massachusetts Domestic Violence Hotline: (877) 785-2020/ TTY (877) 521-2601
6. National Domestic Violence Hotline: (800) 799-7233/TTY (800) 787-3224
7. Hospital emergency room (below are listed the hospitals serving the campuses by location:
   a. GARDNER: Heywood Hospital, 242 Green Street, Gardner, MA: (978) 632-3420
   b. LEOMINSTER/DEVENS: Health Alliance Hospital, 370 West Street, Leominster, MA (978) 534-9675
   c. DEVENS: Nashoba Valley Medical Center, 200 Groton Road, Ayer, MA (978) 784-9000 (or Health Alliance Leominster – see above)
   d. FITCHBURG: Health Alliance Hospital, 275 Nichols RD, Fitchburg, MA (978) 343-3507

The filing of a police report does not obligate the survivor to prosecute nor will the survivor be scrutinized or judged. The decision whether or not to prosecute does not negate the responsibility of the college to take disciplinary action if the suspect is associated with the college (student or employee) nor negate the college’s responsibility to count the statistic. The survivor identity and investigation however remain confidential to the extent permissible by law. Reporting parties are also strongly encouraged to contact the MWCC Dean of Students at (978) 630-9139 and/or the MWCC Title IX Coordinator (see list above) during regular business hours or via the MWCC Police and Public Safety, Gardner Campus, after hours at (978) 630-111 or in person during normal business hours.

Filing a police report will:

- Ensure that a survivor of sexual assault receives the necessary medical treatment and tests at no expense to the victim.
- Ensure that the survivor of domestic violence, dating violence, or stalking received necessary medical treatment.
- Provide the opportunity for collection of evidence helpful in prosecution, which cannot be obtained later (ideally a survivor of sexual assault should not wash, douche, use the toilet, or change clothing prior to a medical/legal exam).
- Ensure that the survivor a sexual assault is provided information and opportunity to apply for an applicable restraining or harassment order against their assailant.
- Ensure the survivor has access to free confidential counseling from counselors specifically trained in the area of sexual assault crisis intervention, domestic violence/dating violence and stalking intervention.
- Ensure that the survivor of domestic violence, dating violence, or stalking is apprised of their right to obtain a protection order (restraining order or harassment order) and is provided assistance in obtaining an order.

### 3. MWCC Police and Public Safety Department Response

In the case of a reported sexual assault, a certified officer will be assigned to investigate/assist the local or state police department with the investigation and apprehension measures.

If a sexual assault is reported to or discovered by MWCC police, the following procedures must be followed:

- Encourage the survivor to seek immediate medical attention and assist the survivor in obtaining access to medical treatment by contacting emergency medical services.

This should be done even when the survivor states that he/she does not want medical services as the person may be in shock or otherwise not competent to make such a decision. However, it is the survivor’s right to refuse treatment and a survivor should never be forced to get medical attention. Rather, the officer should explain the importance of immediate medical attention so that the survivor can make an informed decision. A trained medical professional may be more prepared to explain the medical options to the survivor and should be used whenever possible. A college counselor or rape crisis counselor may also help in providing information to the survivor in a non-intimidating manner. The officer shall assist the survivor in contacting support services when requested.
• The MWCC police officer will advise the survivor of the importance of preserving evidence.

This means that no matter how uncomfortable this may be for the survivor, he/she should not clean himself/herself prior to a physical examination, conducted at a nearby hospital. If the survivor requires non-emergency medical treatment, the MWCC police officer should nonetheless guide the survivor to medical services and/or rape crisis services. Physical evidence (such as clothing) is secured by MWCC Police and/or the local or state police on the scene. The MWCC police officer shall provide the victim with a copy of the Title IX brochure and Survivor Information Sheet (Attachment 1 in this document), if possible.

4. Notifications

• The MWCC police or public safety officer should immediately contact the on duty supervisor.
• The supervisor will notify, or designate an appropriate person to notify the MWCC Chief of Police and Public Safety or his/her designee.
• The Chief or his/her designee will contact the President and other personnel as appropriate to managing and arranging for appropriate support services, etc.; including but not limited to the Vice President of Human Resources and Affirmative Action/Title IX Coordinator and/or the Dean of Students.
• The MWCC police officer will also offer to assist the survivor in contacting rape crisis hotline (800) 970-5905.
• In the case of off-campus crimes, the MWCC police will get the survivor to the proper agency and will remain informed. The MWCC Chief of Police and Public Safety or his/her designee must still be notified in order to provide guidance and ensure appropriate support and response to the survivor and the college community. The initial responding officer should obtain necessary information to make a determination of the need for emergency response procedures and to take necessary action for the safety of the survivor and the college community as a whole. In most cases, the investigation will be conducted jointly with local or state police for the particular jurisdiction.
• The MWCC Chief of Police and Public Safety or his/her designee will assign a Sexual Assault Certified Investigator to respond/investigate and/or assist local or State police with jurisdiction over the investigation.

5. Privacy

The privacy of the survivor is paramount. The name of the survivor shall not be released without the express written permission of the survivor. The name of the survivor shall be protected at all times and released only to the Chief of Police and Public Safety or his/her designee and the assigned investigating officer(s).

6. Initial Intake

The Mount Wachusett Community College police officer should gather the following information:

• Name, address, telephone number.
• Where and when the sexual assault occurred.
• The location of the survivor.
• A brief description of what happened to the survivor.
• Name (if known) and description of the individual who committed the assault (if possible, include sex, race, height, weight, clothing, build, hair color, and physical oddities).
• Location of the individual who committed the assault, if known, or description of where the individual went after committing the assault.
• Description of the vehicle in which the assailant left (if applicable and known, including make, model, year, color, and license plate number) and the direction of travel.
• Any additional information that the victim provides voluntarily that may assist in the investigation and apprehension.
• NOTE: No formal statement will be taken from a survivor or suspect unless by a certified sexual assault investigator.

Information gathered will be forwarded to the Chief and the investigating officer(s) and an initial report will be completed. The assigned investigator(s) will complete a more detailed investigatory report during the course of the investigation.

7. Apprehension of Suspect

If there is the potential for the immediate apprehension of the assailant, the MWCC police officer should call the state and/or local police as soon as preliminary information is received and then contact the college authorities, as listed above.
If immediate apprehension is not likely, the MWCC police officer shall then call the Chief of Police and Public Safety.

- The Chief or the ranking officer in charge of the MWCC Police and Public Safety Department shall determine whether to call the local and/or state police.
- If the survivor requests the assistance of a MWCC police or public safety officer to contact the local or state police, the officer shall assists the survivor as requested.

8. Documentation

The MWCC police or public safety officer shall file a detailed report before the end of the shift in which the incident occurred. The incident shall be entered in the daily crime log directly or via the MWCC police report writing system unless there is clear and convincing evidence that the release of information would:

- Jeopardize an ongoing investigation; or
- Jeopardize the safety of the individual; or
- Cause a suspect to flee or evade detection; or
- Result in the destruction of evidence.

The MWCC Chief of Police and Public Safety or his/her designee in coordination with the local or state police with jurisdiction over the investigation, if applicable, will make this determination. Additionally, the same process will be used to assess the situation and to make a decision to disclose the information when it is determined that the adverse effect is no longer likely to occur.

The survivor of a sexual assault may choose for the investigation to be pursued through the criminal justice system and the college disciplinary process (when the suspect is affiliated with the college) or may opt not to prosecute and only use the college disciplinary process. The MWCC Designated Campus Official(s) (Title IX Coordinator and/or Dean of Students or designees) or the MWCC Chief of Police or his/her designee will guide the survivor through available options and support the survivor in his/her decision(s).

The identity of the survivor will remain confidential, however, the crime statistic, once reported to the MWCC police or other campus security authority, must be recorded in the MWCC Daily Crime Log maintained by the MWCC Police and Public Safety Department. Certain information regarding the report may be releasable under the public records laws. Appropriate information must also be reported to the Title IX Coordinator for follow-up. Notification of the Title IX coordinator will occur through the Chief of Police and Public Safety or his/her designee.

9. MWCC Students, Faculty and Staff Reporting and Referrals

Any MWCC student or staff member who receives a report of, or discovers possible sexual misconduct/sexual assault, domestic violence, dating violence or stalking on campus, shall immediately report this to the appropriate campus services dependent upon the nature of the situation:

- In Emergency Situation:

  GARDNER CAMPUS: Dial 1111 to contact the MWCC police and public safety officers and to initiate medical and other emergency response as necessary. Stay with the survivor in a safe place that allows for privacy. Do not leave the survivor and, if possible, send someone to get additional support.

  LEOMINSTER, DEVENS, FITCHBURG or OFF-CAMPUS LOCATIONS: Call 911 to reach the local/state police jurisdiction then call MWCC police at (978) 630-9111 at the Gardner Campus for follow-up response and to initiate college support services.

- In Non-Emergency Situations:

  Remain with the survivor and discuss the possible options for services including:

  - MWCC Police and Public Safety: (978) 630-9150 or (978) 630-9111;
  - MWCC Health Services: (978) 630-9136;
  - MWCC Counseling services: (978) 630-9178; or
  - MWCC Student Services: (978) 630-9855

Provide the Survivor Information Sheet (Attachment 1 in this document) to the survivor. The survivor information sheet provides information regarding how to contact the MWCC Police and Public Safety Department and local police, as well as the rape crisis hotline (Pathways for Change), domestic violence hotlines, and emergency medical services for each campus.
In all situations, institutional personnel shall assist the survivor in notifying the appropriate law enforcement authorities if the victim requests.

All reports, whether emergency or non-emergency, must ultimately be reported to the MWCC Chief of Police and Public Safety, the MWCC Dean of Students or his/her designee (also the Designated Campus Official), the MWCC Vice President of Human Resources and Affirmative Action (Title IX Coordinator/Designated College Official), and the MWCC President.

The safety and care of the survivor should be of the utmost importance in dealing with persons having experienced a sexual assault. Great care should be given in making the survivor as comfortable as possible and in providing an understanding and safe environment as the necessary procedures are implemented. It is extremely important that these procedures are followed to ensure that appropriate medical and administrative services are provided. The MWCC police will then be responsible for implementing the procedures specified in Section 1, above.

10. Designated College Officials

• Chief of Campus Police and Public Safety
• Dean of Students
• Title IX Coordinator

The MWCC Chief of Police and Public Safety, Dean of Students and the Title IX Coordinator, as appropriate, or designees shall be responsible for ensuring that all college policies and procedures are followed.

11. Media Relations

The President or his/her designee shall be the designated spokesperson for all media inquiries.

12. Other Responsibilities and Requirements


The Mount Wachusett Community College policy also satisfies the following statutorily required policies and procedures:

• Both parties have the right to be informed of their options to notify proper law enforcement authorities (local police department, the Massachusetts State Police or the Mount Wachusett Community College Police), and the option to be assisted by campus authorities in notifying such authorities, if the student so chooses;
• Survivors shall be notified of available counseling, mental health services and student services for survivors of sexual assault, sexual misconduct, domestic violence, dating violence, and stalking both on campus and in the community. The Survivors Information Sheet (Attachment 1 in this document) provides resource information to the survivor. The college counselor and the college nurse will provide immediate assistance and shall make referrals to the local Rape Crisis Center, domestic violence hotline, or other applicable resources. Additional referrals may be made to local service agencies by agreement with the college at reduced costs to students or with coverage by individual health insurance plans.
• The college will provide assistance in changing academic situations in compliance with the Commonwealth of Massachusetts Policy on Affirmative Action, Equal Opportunity and Diversity, after an alleged sexual assault incident, if so requested by the survivor and if the changes are reasonably available.

Revised and reissued December 12, 2019 klk

ATTACHMENT 1

SURVIVOR (VICTIM) INFORMATION SHEET

Who to Contact

In the event you are the victim of sexual assault on campus, first and most importantly, get yourself to a place of safety. Once safe, call one or more of the following (below). The resources below are located in Central Massachusetts. Additional resources and up to date contact information (as contact information may change) can be found at the Commonwealth’s Executive Office of Health and Human Services’ Website under “Consumer” information at http://www.mass.gov/eohhs/.
The Importance of a Medical Examination

For purposes of ensuring your own physical health, as well as successful apprehension and prosecution of your attacker (if desired/warranted), it is very important that you promptly go or be sent to a nearby hospital emergency room to be examined. As awkward and uncomfortable as it may be you should not change your clothing or bathe prior to this examination. You will want, at this time, to be tested and treated for any injuries you may have sustained, and also be tested for the presence of any sexually transmitted diseases. It is your right to have a trained rape counselor accompany you throughout all or any part of the medical examination. The counselor is there to provide support and answer any questions you have. The information you share privately with the counselor is confidential. Seeing the doctor and having an evidentiary “rape kit” completed does not mean you must prosecute your attacker, but it does significantly increase the potential for success if you choose to do so.

If possible, either bring a change of clothing with you to the hospital or have someone do so for you, as your clothing worn during the assault should be collected by the medical team.

Protecting Yourself Following a Sexual Assault

After a sexual assault has occurred, it is extremely important for you to take actions to protect your personal safety. If you know or fear your attacker knows your whereabouts, you may want to make temporary arrangements to stay elsewhere. Restraining orders preventing your attacker from contacting you are available through the court system. Although you must request the order (with or without assistance of an attorney), rape crisis counselors can help you complete the required paperwork at the police station. Counselors can also refer you to appropriate support agencies and shelters, if desired.

Recovery

It is important to remember that sexual assault can happen to anyone. Sexual violence is not the survivor’s fault. However, victims frequently experience confused and deeply troubled feelings following an attack. It is important not to hold such feelings in – talk to a trusted friend or relative and seek appropriate professional counseling. Rape crisis centers offer 24-hour hotlines and these conversations are completely confidential. You can talk to the counselors about everything – they are there to listen and to help. They can answer questions about police proceedings, legal issues, medical procedures, counseling options, and many other topics.

Remember, if you have been sexually assaulted, you are a survivor – you now need to take appropriate steps toward recovery – physical and emotional.

CAMPUS SOLICITATION POLICY

The intent of the Campus Solicitation Policy is to ensure non-interference with the educational activities and business operations of the college. It is the general policy of the college not to serve as a forum or meeting place wherein vendors can solicit employees or students. For a full description of the Campus Solicitation Policy and related procedures, please contact Student Services or the Director of Human Resources.

POLICY STATEMENT ON DRUGS AND ALCOHOL

The Drug and Alcohol Policies established at Mount Wachusett Community College are intended to address student or employee misuse of alcohol and other drugs on campus, thereby creating a safer campus and an environment that nurtures students’ academic and social...
development and employee professional development. The goal of this policy is prevention and awareness that will allow the college to establish and maintain an environment that will discourage substance use.

On December 12, 1989, Congress amended Title XII of the Higher Education Act of 1965. This amendment, known as the “Drug-Free Schools and Communities Act of 1989,” requires that every educational institution as a condition of receiving funds or any other form of financial assistance under any federal program, certify its adoption and implement programs designed to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees. It further requires that the college submit a written certification to the Secretary of Education that it has adopted and implemented a drug prevention program as described in the regulations. Mount Wachusett Community College, in accordance with legal mandates and its philosophy of establishing and maintaining an environment of learning and supportive climate in which to conduct the business and mission of the College will enforce the following policies:

1. The unlawful manufacture, distribution, dispensing, possession, or use of alcohol or illegal drugs (including marijuana) is prohibited on any campus of MWCC or as part of any college-related activity. Students or employees who violate these restrictions shall be subject to appropriate disciplinary action, up to and including suspension, expulsion, or discharge and shall also be subject to referral for criminal prosecution. Where students or employees are convicted of violating a criminal drug or alcohol statute related to a college activity, the college shall ordinarily expel or discharge the offender absent mitigating circumstances. Mitigating circumstances shall include, but shall not be limited to, considerations of disability under federal and state law.

2. Mount Wachusett Community College shall cooperate in the enforcement of federal and state laws concerning illegal drugs and alcoholic beverages. Massachusetts statutes pertaining to illegal drugs and alcohol include the following:
   a. Massachusetts General Laws, Chapter 94C (Controlled Substances Act)
   b. Massachusetts General Laws, Chapter 272, Section 59 (Public Drinking)
   c. Massachusetts General Laws, Chapter 90, Section 24 (Operating under the Influence, Open Containers)
   d. Massachusetts General laws, Chapter 138, Section 34C (Minor in Possession of Alcohol)
   e. Massachusetts General Laws, Chapter 138, Section 22 (Unlawful Transportation of Alcohol)

**CONTROLLED SUBSTANCES ACT:**

Prescribed penalties under Massachusetts General law (M.G.L.) Chapter 94C for possession of controlled substance ranges from a civil penalty of one hundred dollars for public consumption of marijuana in a public place or where smoking is prohibited, or five hundred dollars for having an open container of marijuana in a motor vehicle passenger compartment; a civil fine of one hundred dollars for possession of a Class D substance, including; marijuana (under age 21) or tetrahydrocannabinol and having cannabinoids or cannabinoid metabolites in the urine, blood, saliva, sweat, hair, fingernails, toe nails or other tissue or fluid of the human body to a mandatory minimum of 3 ⅜ years in State Prison for Trafficking Offenses and up to 30 years and a fine of not less than fifty thousand dollars and not more than five hundred thousand dollars. Controlled substances include the illegal possession of a Class E substance (prescription drugs other than those included in A, B, C, or D) when a valid prescription has not been authorized. Penalties vary under M.G. L. depending on the class of the controlled substance. Enhanced penalties are provided under law for possession with intent to distribute controlled substances and distributing of a controlled substance to a minor (under 18 years of age).

The civil penalties as outlined above are extended for youthful offenders under the age of (18) to include mandatory completion of a drug awareness program within one year of the offense.

1. Possession or consumption of any substance prohibited by State or Federal law is prohibited on any property owned, rented, leased, or in control of Mount Wachusett Community College or in connection with any College function, whether on or off campus. This includes marijuana and its derivatives.

“Controlled substance”, a drug, substance, controlled substance analogue or immediate precursor in any scheduled or class referred to in this chapter.

“Controlled substance analogue”, (i) a drug or substance with a chemical structure substantially similar to the chemical structure of a controlled substance in Class A, B, C, D, or E, listed in section 31 and which has a stimulant, depressant or hallucinogenic effect on the central nervous system that is substantially similar to or greater than the stimulant, depressant or hallucinogenic effect on the central nervous system of a controlled substance in Class A, B, C, D, or E, listed in section 31; or (ii) a drug or substance with a chemical structure substantially similar to the chemical structure of a controlled substance in Class A, B, C, D, or E, listed in section 31 and with respect to a particular person, which such person represents or intends to have a stimulant, depressant or hallucinogenic effect on the central nervous system that is substantially similar to or greater than the stimulant, depressant or hallucinogenic effect on the central nervous system of a controlled substance in Class A, B, C, D or E, listed in section 31; provided, however, that “controlled substance analogue” shall not include: (1) a controlled substance; (2) any substance for which there is an approved new drug application; (3) with respect to a particular person, any substance for which there is an exception in effect for investigational use for that person, under
section 8, to the extent conduct with respect to the substance is pursuant to such exemption; (4) or any substance not intended for human
consumption before such an exemption takes effect with respect to that substance; provided however, that for the purposes of this chapter,
a “controlled substance analogue” shall be treated as the Class A, B, C, D or E substance of which it is a controlled substance analogue.

OPERATING UNDER THE INFLUENCE/OPEN CONTAINERS:

Prescribed penalties under Chapter 90, Section 24, for operating under the influence/open containers range from a fine of not less than
$500 to imprisonment for not more than two years and one half years and/or a fine of up to $5000. Federal judicial guidelines also exist
that suggest penalties for violation of federal criminal statutes related to drugs and alcohol.

MINOR IN POSSESSION OF ALCOHOL:

Prescribed penalties under Chapter 138, Section 34C, for a minor in possession of alcohol, authorizes arrest without a warrant when
committed in the officers presence. Fines may range from up to $50 for a first offense to up to $150 for a subsequent offense and a
mandatory suspension of driver’s license or right to operate a motor vehicle for 90 days regardless of whether the minor was operating
a vehicle at the time of the incident.

TRANSPORTATION OF ALCOHOL BY MINORS:

Prescribed penalties under chapter 138, Section 22, for unlawful transportation of alcohol, authorizes arrest without a warrant when
committed in the officer’s presence. Penalties may include not more than 6 months in the House of Correction and/or a fine of up to
$2500.00.

(1) Underage drinking is prohibited at Mount Wachusett Community College functions and on any part of the campus.

(2) It is Mount Wachusett Community College's policy that consumption of alcohol is prohibited in connection with any College
function, whether on- or off-campus, without the express written permission of the President of the College or his designee.

(3) Employees working under federally funded grants are additionally subject to the Drug-Free Workplace Act of 1988. The Act
creates the following obligations:

(a) Employees convicted of any criminal drug statute violation occurring in the workplace must notify the Vice President
of Human Resources and Payroll/Affirmative Action Officer of Mount Wachusett Community College no later than five
(5) days after such conviction. Such notification must be in writing.

(b) The College shall notify the appropriate federal agency within ten (10) days after receiving notice from the employee
regarding such conviction. Such notification will be in writing.

(c) The College, within thirty (30) days of receiving notice, with respect to any employee who is convicted, will:

   (i) Take appropriate disciplinary action against the employee, up to and including termination of employment, or

   (ii) Require such employee to participate satisfactorily in a drug abuse resistance or rehabilitation program approved
       for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(4) The College will present campus-wide drug and alcohol education programs on an annual basis. This is in addition to other
educational opportunities available in current or future academic offerings.

Health Risks Associated With the Use of Illegal Drugs and the Abuse of Alcohol

The misuse of alcohol and other drugs create problems for students or employees who engage in this behavior as well as for their peers
or fellow employees who suffer a range of consequences from having their study or work interrupted to far more egregious acts. Obvious
health risks include physical dependence, psychological dependence, possible overdose and withdrawal symptoms.

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination
required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Repeated use or abuse of alcohol
can lead to physical and psychological dependence. Long-term consumption of large quantities of alcohol can also lead to permanent
damage to vital organs.

Statistics show that alcohol use is involved in a majority of violent behavior on college campuses, including acquaintance rape, vandalism,
fights, and incidents of drinking and driving.
Mount Wachusett Community College Resources

For any member of the MWCC community who is experiencing substance abuse problems, Mount Wachusett Community College stands ready to offer supportive services and referral for treatment, as appropriate and available. Information concerning substance abuse and rehabilitation counseling programs is available through the following College resources:

1. **Alcoholics Anonymous / Narcotics Anonymous**

   Regular meetings are held in the North Central Massachusetts area daily. Group preferences are often based on student schedules and access to reliable transportation. The following links will direct students to the appropriate resources for these groups:


   Information about these meetings may be obtained from the Health Services (978) 630-9136, Counseling Services (978) 630-9178, and the Dean of Students (978) 630-9139.

   MWCC members interested in a sober support group on campus are invited to consult with Health Services.

2. **Substance Abuse Education - Student Life Informational Programs**

   a. **Substance Abuse Education and Counseling**

      The Health Services and Counseling Services offices at Mount Wachusett Community College are the primary resources for individuals experiencing or affected by persons with substance abuse issues. Information and referral services are available on a drop-in basis. Informational brochures on topics such as drug and alcohol abuse, AIDS transmission and other sexually transmitted diseases are made available to students, so they may access information in an anonymous manner. The College nurse and college counselors are available by appointment at each of the campuses by contacting Student Services at (978) 630-9855 to discuss issues with students confidentially.

   b. **Awareness Activities**

      i. The Office of Student Life, in conjunction with the MWCC Student Government Association, plans a number of alcohol and drug awareness activities. In conjunction with National Collegiate Alcohol Awareness Week in October, activities such as educational performers and drunk driving awareness programs are held on the Gardner Campus and are open to all students and staff. Additionally, groups such as MADD (Mothers Against Drunk Driving) and SADD (Students Against Drunk Driving) set up informational booths on campus to encourage responsible drinking.

      At key times during the semester, such as during the holiday season and at graduation, awareness activities are scheduled. The focus of these activities is to raise awareness of students on responsible use of alcohol and the effects of illegal and prescription drug use and abuse. The responsible and legal choice is always emphasized.

      ii. **Student Health 101**

         An on-line educational resource magazine with health information designed specifically for community college students through the College’s student portal-iConnect. This format of content is accessible to all students regardless of their campus affiliation and addresses information for on-line learners. Content varies and may include a number of topics including: the use and abuse of drugs and alcohol, interaction of substances with prescription medication, misuse of prescription medication and other related topic.

      iii. **Informational tables and activities**

         Information regarding sexually transmitted diseases (STDs) and impaired decision making due to alcohol and drug use is offered through informational tables, which include activities & literature-one time per year. Additionally information is provided once per year, prior to spring break via informational tables and literature regarding alcohol and drug use and impaired decision making.

3. **Human Services**

   Alcoholism is treated as part of a unit of Psychology 240, Abnormal Psychology, a course required of Human Services and Criminal Justice students. This topic is discussed in 3 classes as a category of Substance Use Disorders as outlined in the Diagnostic and Statistical Manual (DSMIV) of the American Psychiatric Association. The following broad concepts are covered in this unit: incidence; physical effects; progression; gender differences in addiction; and treatment.
(4) **Mount Wachusett Community College Library**


**Distribution of the Policy**

This policy is distributed annually in writing to all students and employees through the following means:

- Printed publications
  - College catalog
  - Employee Publications and Policy Manual
- Online
  - MWCC website
  - All student and all employee email

**Review and Compliance**

In compliance with the United States Department of Education requirement, this policy is reviewed on a biennial basis to: (1) determine its effectiveness and implement changes if they are needed and (2) to ensure that the sanctions developed are enforced consistently. The most recent biennial review was completed in December 2016. Copies of this review are retained in the Office of the President, the Student Services Office and the Division of Human Resources. The next review/report will be completed by December 2018.

**FERPA Parental Notification Policy**

In compliance with *Family Educational Rights and Privacy Act* (FERPA) regulations, Mount Wachusett Community College, has adopted a Massachusetts Board of Higher Education recommendation that the parents or legal guardians of students under twenty-one years of age be notified when the student has violated the MWCC alcohol or drug policies. Section 952 of the 1998 Higher Education Amendments, authorizes institutions of higher education to disclose to parents and guardians of students under age twenty-one, violations of institutional policies or rules, as well as local, state, and federal laws governing the use or possession of alcohol or a controlled substance.

3/13/19
FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

Students Notification of Rights

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

- **The right to inspect and review the student’s education records within 45 days of the day the college receives a request for access.**
  A student should submit to the MWCC Records Office a written request that identifies the record(s) the student wishes to inspect. The Records Office will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

- **The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.**
  A student who wishes to ask the college to amend a record should write the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- **The right to provide written consent before the college discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorized disclosure without consent.**
  The college discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research role; a support staff person (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted as its agent to provide a service instead of using college employees or officials (such as an attorney, auditor, or college agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibilities for the college. Upon request, the college discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

- **The right to be notified annually by the college of what student record information the college designates as “directory information” and the right to request that no student information be designated as directory information.**
  The college identifies the following student information as directory information:
  a. the student’s first and last name and middle initial
  b. the student’s billing address
  c. MWCC sponsored e-mail address
  d. the student’s declared program(s) of study at the college
  e. the student’s enrollment status (full- or part-time)
  f. degree or certificate earned and academic honors
  Directory information may be released by the college to a requesting third-party without a student’s prior written consent. A student has the right to request that his/her student record information not be designated as directory information. A student must notify the college’s Records Office, in writing, if he/she does not wish to have his/her student information designated as directory information. Please allow up to 10 business days for the processing of these requests. Notwithstanding the college’s definition of directory information, the Department of Defense (the “DOD”), pursuant to the Omnibus Consolidated Appropriations Act of 1997 (the “Solomon Amendment”), identifies the following information as “student recruiting information”: NAME, ADDRESS, TELEPHONE LISTING, AGE (or year of birth), PLACE OF BIRTH, LEVEL OF EDUCATION (e.g., freshman, sophomore), DEGREE AWARDED, MOST RECENT EDUCATIONAL INSTITUTION ATTENDED, and CURRENT MAJOR(S).

- **The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:**

  Family Policy Compliance Office
  U.S. Department of Education
  400 Maryland Avenue, SW
  Washington, DC 20202-5920
DIRECTORY INFORMATION

The Family Educational Rights and Privacy Act (FERPA), a federal law, requires that Mount Wachusett Community College, with certain exceptions, obtain your written consent prior to the disclosure of personally identifiable information from your education records. However, Mount Wachusett Community College may disclose appropriately designated “directory information” without written consent, unless you have advised MWCC to the contrary in accordance with MWCC procedures. The primary purpose of directory information is to allow MWCC to include this type of information from your education records in certain publications.

Directory information, which is information that is generally not considered harmful or an invasion of privacy if released, can also be disclosed to outside organizations without prior written consent. Outside organizations include, but are not limited to, companies that manufacture class rings or publish yearbooks. If you do not want Mount Wachusett Community College to disclose directory information from your education records without your prior written consent, you must notify MWCC through the Records Office that you wish to be excluded. MWCC has designated the following information as directory information:

- the student’s first and last name and middle initial
- the student’s billing address
- MWCC sponsored e-mail address
- the student’s declared program(s) of study at the college
- the student’s enrollment status (full- or part-time)
- degree or certificate earned and academic honors
HAZING

An Act Prohibiting the Practice of Hazing was enacted by the Senate and House of Representatives in General Court in 1985. Chapter 269 of the General Laws was amended by adding the following three sections:

SECTION 17. HAZING; ORGANIZING OR PARTICIPATING; HAZING DEFINED

Whoever is a principal organizer or participant in the crime of hazing, as defined herein, shall be punished by a fine of not more than $3,000 or by imprisonment in a house of correction for not more than one year, or by both such fine and imprisonment.

The term “hazing” as used in this section and in sections eighteen and nineteen, shall mean any conduct or method of initiation into any student organization, whether on public or private property, which willfully or recklessly endangers the physical or mental health of any student or other person. Such conduct shall include whipping, beating, branding, forced calisthenics, exposure to the weather, forced consumption of any food, liquor, beverage, drug or other substance, or any other brutal treatment or forced physical activity that is likely to adversely affect the physical health or safety of any such student or other person, or that subjects such student or other person to extreme mental stress, including extended deprivation of sleep or rest or extended isolation. Notwithstanding any other provisions of this section to the contrary, consent shall not be available as a defense to any prosecution under this action.

SECTION 18. FAILURE TO REPORT HAZING

Whoever knows that another person is the victim of hazing as defined in section seventeen and is at the scene of such crime shall, to the extent that such person can do so without danger or peril to himself or others, report such crime to an appropriate law enforcement official as soon as reasonably practicable. Whoever fails to report such crime shall be punished by a fine of not more than $1,000.

SECTION 19. COPY OF SECTIONS 17-19; ISSUANCE TO STUDENTS AND STUDENT GROUPS, TEAMS AND ORGANIZATION REPORTS

Each institution of secondary education and each public and private institution of post secondary education shall issue to every student group, student team or student organization which is part of such institution or is recognized by the institution or permitted by the institution to use its name or facilities or is known by the institution to exist as an unaffiliated student group, student team or student organization, a copy of this section and sections seventeen and eighteen; provided, however, that an institution's compliance with this section's requirements that an institution issue copies of this section and sections seventeen and eighteen to unaffiliated student groups, teams or organizations shall not constitute evidence of the institution's recognition or endorsement of said unaffiliated student groups, teams or organizations.

Each such group, team or organization shall distribute a copy of this section and sections seventeen and eighteen to each of its members, plebes, pledges or applicants for membership. It shall be the duty of each such group, team or organization, acting through its designated officer, to deliver annually, to the institution an attested acknowledgement stating that such group, team or organization has received a copy of this section and said sections seventeen and eighteen, that each of its members, plebes, pledges, or applicants has received a copy of sections seventeen and eighteen, and that such group, team or organization understands and agrees to comply with the provisions of this section and sections seventeen and eighteen.

Each institution of secondary education and each public or private institution of post secondary education shall, at least annually, before or at the start of enrollment, deliver to each person who enrolls as a full time student in such institution a copy of this section and sections seventeen and eighteen.

Each institution of secondary education and each public or private institution of post secondary education shall file, at least annually, a report with the board of higher education and in the case of secondary institutions, the board of education, certifying that such institution has complied with its responsibility to inform student groups, teams or organizations and to notify each full time student enrolled by it of the provisions of this section and sections seventeen and eighteen and also certifying that said institution has adopted a disciplinary policy with regard to the organizers and participants of hazing, and that such policy has been set forth with appropriate emphasis in the student handbook or similar means of communicating the institution's policies to its students. The board of higher education and, in the case of secondary institutions, the board of education shall promulgate regulations governing the content and frequency of such reports, and shall forthwith report to the attorney general any such institution which fails to make such report.
INCLEMENT WEATHER AND EMERGENCY CLOSING POLICY

MWCC campuses will remain open unless conditions are so extreme that parking lots and sidewalks cannot be safely cleared and/or major streets and highways leading to campuses are clearly dangerous.

Closing or delayed opening information is available through the following sources:

TELEVISION
- WBZ-TV Channel 4
- WCVB Channel 5
- WHDH TV Channel 7
- WFXT 25-Fox
- MY TV 38
- NECN
- WLVI TV CW 56

RADIO
- WRKO 680 AM
- SRS 96.1 FM
- WXLO 104.5 FM
- WBZ News Radio 1030 AM
- WPKZ 105.3 FM and The Pulse 1280 AM

TELEPHONE
Automated Notification System: When a situation warrants its use, an automated system will call registered students with a recorded message announcing school closures or delays when classes are in session for the fall, spring, and summer terms. A recorded message is also provided by calling 978-632-6600 and selecting option "8."

WEBSITE
Closings or delays due to weather will be posted to the MWCC website.

SOCIAL MEDIA
Closings or delays due to weather will be posted to the MWCC Emergency Notice Facebook page.

MOBILE APPLICATION
All weather notices may be accessed via the MWCC mobile application available through iTunes and other providers.

Closing or delays are usually determined by 6:00 a.m. for day classes and 3:00 p.m. for evening classes. However, weather conditions may require cancelations at other times.
INFORMATION TECHNOLOGY GENERAL ACCEPTABLE USE POLICY

Mount Wachusett Community college provides information technology resources for students, faculty and staff.

This document:

• Provides guidelines for responsible use of Mount Wachusett Community College’s technology resources by all members of the college community.
• Provides policies that Mount Wachusett Community College uses in providing technology resources and network services to the college community.
• Explains enforcement procedures of these policies.
• Applies to all those using college computing equipment whether the individual is on or off campus.

This document provides high-level explanations of college policies regarding the use of information technology. For more detailed explanations refer to the Information Technology Acceptable Use Policy (“AUP”). (https://mwcc.edu/wp-content/uploads/2017/11/Acceptable-Use-Policy.pdf)

GUIDELINES FOR RESPONSIBLE USE OF COLLEGE TECHNOLOGY RESOURCES

Mount Wachusett Community College recognizes that free expression of ideas is central to the academic environment. For this environment to flourish, all users must adhere to the guidelines established in this Information Technology Acceptable Use Policy (“AUP”).

Mount Wachusett Community College provides computing equipment and services. The primary purposes of this computing equipment are the academic, research, administrative and college business-related communication needs of its students, faculty and staff. All use of college computing equipment shall be consistent with the terms and conditions of the AUP and shall not violate or conflict with (a) any federal, state or local law; or (b) the college mission or policies. Access to all Mount Wachusett Community College owned and/or operated computing and electronic communications systems and equipment is a privilege and not a right.

Individuals who refuse to accept and follow the AUP will not be granted user accounts. All users of the college’s computer equipment, including email, shall have NO EXPECTATION OF PRIVACY over such use.

Violations of the AUP by individuals with accounts may result in penalties including but not limited to closure of all accounts and revocation of all computing privileges. Other penalties may be levied up to and including dismissal from the college or termination of employment.

User responsibilities include, but are not limited to:

• Maintaining privacy and security by keeping all passwords confidential.
• Honoring all computing security procedures implemented by the college.
• Being reasonable and prudent in the consumption of college computing and network resources.
• Deleting old and unused e-mail and file(s) on a regular basis.
• Maintaining the accuracy of private mail groups by updating when members change.
• Developing adequate proficiency in the tools and technologies appropriate to his/her needs.

College Network Usage Guidelines include, but are not limited to:

• No one may misuse, abuse or otherwise damage college computer or network equipment.
• No one may install or use any software or hardware designed to disrupt the security of any computing equipment, whether owned by the college or by others.
• No one other than Media Services or Information Technology staff may download or install any software on any college computer.
• No one may use college resources to support political or non-college related business interests.
• No one may sell or provide access to Mount Wachusett Community College’s computing resources to individuals, groups or businesses outside the college community except (1) as authorized in writing by an appropriate senior officer of the college and (2) for authorized college business relationships.
• Recreational uses – such as game playing or music or video file sharing – constitute an unacceptable use of college computing equipment except if such activities are part of an instructional plan.
• No one may engage in any activities designed to spy on network traffic or to access passwords, user IDs, files or programs of other users.
• No one may engage in software piracy or copyright infringement. All software installed on college computers must be used in conformance with the license granted by the developer. Unlicensed products will be removed from college computers.
• No one may send, store, print or solicit receipt of e-mail messages, files or programs that contain fraudulent, harassing, racist or obscene language, visual, or audio content. Exceptions may be made for legitimate academic research purposes with prior approval.
• Note that any e-mail message (other than official college business) sent to an individual after that individual has indicated through any method that they no longer want to receive e-mail from the sender constitutes harassment. Complaints are handled via the Enforcement Procedures section (see below).
• No one may use e-mail to engage in “chain letter” or “spamming” [bulk “junk” e-mail activity].
• No one may send, store, print or solicit receipt of e-mail messages, files or programs that are inconsistent with the terms and conditions of the AUP, in conflict with the Mission Statement of Mount Wachusett Community College, or that violate federal and/or state laws.
• No one may use college computing resources for illegal behavior or illegal activities as defined by federal, state and/or local laws.

COLLEGE TECHNOLOGY RESOURCES AND NETWORK SERVICES POLICIES

Disclaimer: The responsibility for the content of personal files, programs, web pages and e-mail rests solely with the individual and not with the college. Mount Wachusett Community College does not monitor the contents of embedded links of personal user accounts or personal web pages although it expressly reserves the right to do so.

To preserve the integrity and maintain efficient functioning of the college’s computing facilities, the college enforces the following policies:

The creation of public mail groups is limited to college departments, committees and official student organizations.

Email users should exercise prudent judgment when sending “All MWCC” emails. Use of this list for any commercial purpose not directly connected to college sponsored events requires approval of the President or his designee prior to sending the email.

Computing resources are provided for academic, research, administrative and college business-related communications uses.

The college reserves the right to establish time limits on the use of public workstations as needed.

MWCC realizes that the free expression of ideas is central to academia, but will not tolerate the display of pornographic, obscene, abusive, racist, or other inappropriate material at any public workstation. The college reserves the right to determine the appropriateness of material displayed on public workstations.

The MWCC computing facilities constitute a private system. As such, the information stored on the college equipment is the property of the college and the Commonwealth of Massachusetts with the possible exception of material expressly developed by faculty, staff, and students for publication. Copyright and ownership of such content must be expressly and clearly stated in such works. Individuals who place content owned by others on computers under their control accept full responsibility for maintaining compliance with copyright laws.

Users of the college’s computing equipment, including email, shall have NO EXPECTATION OF PRIVACY over such use. The college reserves the right to access the personal files or monitor the system usage of any authorized user without that individual’s consent, under the following circumstances:

• A subpoena or other properly served request from enforcement officers. All such requests must be served by an officer of the court that has jurisdiction and be reviewed and approved in writing by a senior officer of the college. Review by college counsel may be appropriate.
• A written request from an appropriate senior officer of the college to provide information as part of an ongoing investigation and or disciplinary matter.
• A written request from a Systems Administrator, based on reasonable evidence that files or programs stored in an authorized user’s directory are the source of interference with the efficient functioning of the college computing facilities, that such files are violations of any part of this policy, or are infringing on copyright or intellectual property rights. The Executive Director of Information Technology must endorse such a request.
• A written request from the President of the college.
A written request from College Counsel in support of an ongoing investigation or inquiry.

A written request from the appropriate college officer as a part of a termination of employment action.

Information Technology will maintain records of all of these requests for access and will report the number of requests annually to the college administration.

Electronic files are treated like paper files and subject to subpoena or discovery in legal actions and disclosure if such files constitute public records under Massachusetts law.

Employee accounts are disabled as soon as the IT Department is notified of termination of employment. Human Resources should notify the Executive Director immediately when such personnel actions are imminent.

Passwords to terminated employees accounts will not be provided to other individuals. File access can be provided through system delegation facilities.

ENFORCEMENT PROCEDURES

The College retains right without restriction to monitor, authorize, control, or stop the use of any technology found on its computers or networks.

Violations of the Acceptable Use Policy will be referred to the appropriate senior officer of the college for action through the established disciplinary processes of the college. The results of such referral may include but is not limited to:

- Files and/or programs may be deleted.
- User access privileges may be inactivated.
- User accounts may be removed.
- Users may be suspended, expelled or terminated from college employment.

If a member of the college community believes that another has violated his or her rights, he/she should report the incident to the Executive Vice President and his/her department head.

MWCC ADMINISTRATIVE COMPUTING USE POLICY

The Family Educational Rights and Privacy Act of 1974 (FERPA), plus its amendments, set forth rights and responsibilities regarding the privacy of student record information. FERPA governs release of student records maintained by the college and access to these records. For detailed information about FERPA contact the Office of the Registrar or visit the American Association of Collegiate Registrars and Admissions Officers (AACRAO).

All employees of the MWCC are required to abide by the regulations of FERPA and those of the college regarding access to and use of student information, college financial information and college alumni development information. Student access to Banner for data entry purposes is expressly prohibited.

Department heads, Division heads, Directors and other supervisory personnel are responsible for ensuring that their respective employees follow the FERPA and college guidelines. The college houses its administrative data on its servers. The software package includes Admissions, Registration Records, Grading, Financial Aid Management, Billing, Accounts Payable, General Ledger and Alumni Development Records. Employees who have access to administrative system data must understand and accept the responsibility of working with confidential data. In addition to FERPA, college rules apply to all employees with an administrative system account.

Each employee is given a username and password. This account is for the employee’s use only and should not be shared with supervisors, co-workers, family, or friends. In no case is the sharing of access accounts or passwords authorized.

Each employee will be held responsible for any data input into or retrieval from the administrative system via his/her account. Employees are fully responsible for any system actions initiated under the employee’s user id and password.

An administrative computing account is for use for work-related activities only. Access at other times is prohibited.

Information that does not relate to the work assigned by your supervisor should not be viewed (e.g. looking up friends or co-workers) or altered (e.g. changing a friend’s address) in any way.
MOUNT WACHUSETT COMMUNITY COLLEGE 2020-21 CATALOG AND STUDENT HANDBOOK

Since administrative data is confidential, no employee will discuss or share any data with any other person except as is needed to carry out his/her job responsibilities.

All access to electronic data and reports shall be secured. Sign off the system, put reports away in drawers and/or cabinets when leaving your work areas, especially for long periods of time. Ensure that your computer uses a password protected screen saver to minimize unauthorized disclosure of confidential information.

MOUNT WACHUSETT ELECTRONIC COMMUNICATIONS ACCEPTABLE USE POLICY

Mount Wachusett Community College works in a large, complex information technology environment requiring communications involving both confidential and public data. New technologies offer the college methods to make this communication easier between students, staff, departments, campuses, other colleges, and others. The college has several types of electronic mail systems on its various computer systems, enabling its students and employees to take advantage of these technologies. In addition several types of electronic communications services, including chat, discussion lists, voice mail, and instant messaging services are used by the college community.

However, with this open communication network, vulnerabilities to the privacy of electronic messages possibly containing confidential or proprietary information arise. College electronic communications users need to be aware of the vulnerabilities in electronic communications and of the legal responsibilities that accompany the use of this medium.

Purpose

These standards:

- Define who may use the electronic communications systems controlled and administered by MWCC.
- Outline responsibilities related to maintenance and use of such systems.
- Provide guidelines for the security and confidentiality of college electronic mail, and other forms of electronic communications.
- Provide methods for monitoring, enforcing and dealing with exceptions to this policy.

Scope

College Electronic Communications Polices shall apply to all:

- Electronic mail (email) created, sent or maintained within, administered by or networked to the electronic mail systems of MWCC.
- College email users.
- All other forms of electronic communications, including voice systems and instant messaging services, and other forms of electronic communications listed in the introduction and to any new forms of electronic communications that may be introduced.

Responsibilities

The President, together with the senior officers of the college, determines what categories of individuals (e.g., full time, part-time, staff, students, economic partners, other educational institutions, general public, etc.) may access college electronic communications systems. These individuals will determine which college department(s) shall be responsible for administering electronic communications systems and security, and procedures for monitoring. Campus Electronic Communications Policies will ensure that Electronic Communications Administrators are responsible for:

- Determining what categories of individuals, within the guidelines set by the President and campus administrators, may access the communications system under their control.
- Ensuring that a security plan for the email system for which they are responsible has been developed, implemented, and is maintained. The security plan should include an analysis of whether message encryption is needed.
- Ensuring that a backup plan to allow for message/system recovery in the event of a disaster has been developed, tested, and implemented.
- Periodically assessing the level of risk within the mail system.
- Ensuring that filters to keep text from view of system maintenance personnel have been installed, when technologically possible.
- Ensuring that appropriate steps are taken to prevent a system break-in or intrusion through the electronic communications application.
- Providing information regarding electronic mail vulnerabilities to email users so that they may make informed decisions regarding how to use the system.
• Ensuring that all electronic mail ids for individuals with email accounts on college systems have been deleted when: an authorized user has terminated employment, graduated or withdrawn from the college, and when a “courtesy account” is inactive or no longer needed.

• Ensuring that email message retention standards, within the guidelines of these and other college policies have been developed and are implemented for their electronic mail system.

Campus Electronic Mail Policies will ensure that employees responsible for maintaining, repairing and developing email resources will exercise special care and access email messages only as required to perform their job function. These employees will not discuss or divulge the contents of individual email messages viewed during maintenance and trouble-shooting.

Campus Electronic Mail Policies will ensure that college email users will:

• Use email in a responsible manner consistent with other business communications (e.g., phone, correspondence).

• Safeguard the integrity, accuracy and confidentiality of college electronic mail.

• Only use mail ids assigned to them.

• Remove mail from their mailbox consistent with college, campus, departmental or electronic mail administrator message retention policies and standards.

Campus Electronic Mail Policies prohibit college email users from:

• Sending any unsolicited mail or materials that are of a fraudulent, defamatory, harassing, or threatening nature.

• Posting materials that violate existing laws or college codes of conduct, are inconsistent with the college mission, or are commercial advertisements or announcements on any electronic bulletin boards.

• Forwarding any other form of unnecessary mass mailing (such as chain letters) to college or external email users.

• Using their email access to unlawfully solicit or exchange copies of copyrighted materials in any form.

Electronic Communications Security and Confidentiality Standards

Campus Electronic Communications Policies will ensure that those who access and use these systems are aware and understand that:

The college considers an electronic communications message to be a personal or business correspondence that should, therefore, be dealt with in the same manner as paper correspondence items.

Although electronic communications may be considered the property of the sender and/or receiver, these messages are stored on college computer systems. Therefore, administration of electronic communications systems may require that administrative staff read or access in other ways message contents. Users shall have NO EXPECTATION OF PRIVACY over the content of electronic communications maintained on the college’s computer system.

The college will not routinely monitor the content of electronic documents or messages. Electronic documents and messages may be accessed by technical maintenance, security and troubleshooting staff while performing their duties. Such access may occur when a problem in the software or network arises. Additionally electronic mail may pass out of one computer environment, across a network, and into another computer environment even within the college system. This transport becomes increasingly complicated as mail travels between departments, campuses, universities, states, or nations. The level of security over your messages is affected each time the computer hardware, software and environment changes. Untraceable leaks may occur.

If there is a college investigation for alleged misconduct, the President or his designee may authorize that electronic communications or files may be locked or copied to prevent destruction and loss of information. Additionally, the college may monitor the content of electronic documents and messages, or access email backups or archives as a result of a college investigation, legal discovery, writ, warrant, subpoena, or when there is a threat to the computer systems integrity or security.

The confidentiality of the contents of email messages that include certain types of information (e.g., student related, medical, personal) may be protected by the Family Educational Rights and Privacy Act of 1974 (as amended) and/or the Electronic Communications Privacy Act of 1986. Additionally, the contents of email messages may be classified as public by the Massachusetts Fair Information Practices Act (MGL Title X, c66A, refer to https://malegislature.gov/Laws/GeneralLaws/PartI/TitleX/Chapter66A/) and/or the Massachusetts Public Records Act (MGL Title X, c66, refer to https://malegislature.gov/Laws/GeneralLaws/PartI/TitleX/Chapter66). Further recent federal legislation, referred to as the Patriot Act, may require the college to disclose to law enforcement officers’ information previously considered to be privileged without notification.
The authenticity of an email message cannot be assured due to the state of present email technology. This means that the authorship or source of an email message may not be as indicated in the message. Methods exist to provide for authentication of email messages. Email clients who require this level of security are to contact the Help Desk for assistance in obtaining a digital certificate.

College Email Users may retain active mail files for the retention period instituted by the Electronic Mail Administrator. Deleted and expired email messages will be irretrievable after 90 days.

**Electronic Mail Use Standards**

The following policies govern the use of college email equipment/systems:

Individuals are prohibited from using an electronic mail account assigned to another individual either to send or receive messages. If it is necessary to read another individual's mail (e.g., while they are on vacation, on leave, etc.), delegation or message forwarding should be requested from the email administrator.

College Email Users are encouraged to use these communications resources to share knowledge and information in support of the college's mission. Occasional and incidental social communications using electronic mail are not prohibited; however, such messages should be limited and not interfere with an employee’s job function.

Individuals with email ids on college computer systems are prohibited from sending messages which: violate existing laws or college codes of conduct or policies; are inconsistent with the college mission; or are advertisements or announcements for a commercial business without prior approval of the President or his/her designee.

Authorized users should not "rebroadcast" information obtained from another individual that the individual reasonably expected to be confidential.

Bulletin boards used for soliciting or exchanging copies of copyrighted software are not permitted on college systems.

Authorized users are prohibited from sending, posting, or publicly displaying or printing unsolicited mail or material that is of a fraudulent, defamatory, harassing, abusive, obscene or threatening nature on any college system. The sending of such messages/materials will be handled according to current college codes of conduct, policies and procedures.

The college accepts no responsibility for the content of electronic mail received. If a student, faculty, or staff member receives electronic mail that is considered harassing, threatening or offensive, he/she should contact the appropriate college office for assistance.

Federal and state laws and college policies against racism, sexism and sexual harassment apply to electronic communications. Additionally, the college has special concern for incidents in which individuals are subject to harassment or threat because of membership in a particular racial, religious, gender or sexual orientation group.

**Social Media Use Standards**

In an effort to foster a professional work environment for all employees and to protect the interests of Mount Wachusett Community College the following policies govern the use of all social media by the employees at Mount Wachusett Community College. The term “social media” is intended to address personal networking sites including, but not limited to, MySpace, Twitter, YouTube, or Facebook.

Only authorized individuals may send or post messages on social networking sites on behalf of MWCC.

Employees must be clear that they are speaking for themselves and not on behalf of MWCC when using social media. Employees should refrain from identifying MWCC in personally owned or controlled social media sites or personal commentary posted to social media discussions or pages, or their messages should have clear disclaimers that the views expressed are personal to the author and do not necessarily represent the views of MWCC. Employees are reminded that they bear personal responsibility for the content of their posts, blogs or other social media content.

Employees may not use MWCC logos or other trademarks or branding associated with MWCC’s identity without prior, written approval from the Vice President of Marketing and Communications.

All MWCC policies, including those related to harassment, discrimination, respect for diversity, retaliation, workplace violence, ethics, and conflicts of interest apply to an employee’s postings and social media content.
MWCC reserves the right to monitor employee use of social media. Employees may be disciplined for violating the confidentiality of MWCC, of fellow employees, posting harassing or defamatory content, or other infractions of MWCC’s normal workplace standards of conduct. This applies to postings and blogging occurring at any time on any computer.

MWCC employees are reminded that they should be respectful of co-workers, students, management, and other colleges and universities. It is recommended that you obtain authorization from individuals or colleges and universities prior to posting their picture, using their trademark, or identifying them by their name.

Social networking that is not part of your official duties should be done on personal time using personal computers supported by commercial network assets and not college or other State owned resources.

Personal Facebook profiles may not be used by supervisors or subordinates to communicate work related matters; this is not to be confused with participating in Facebook groups or pages.

Employees are reminded to use discretion when using social networking media. If unsure about how policy or guidelines apply to your posting or social media site, employees are encouraged to consult with their supervisor before taking action whenever possible.

This policy is not intended to interfere with rights under the First Amendment or the National Labor Relations Act.

**COMPLIANCE AND ENFORCEMENT**

Any individual found breaching the confidentiality of electronic communications, disclosing confidential college data, or otherwise violating this policy, may be denied future access to computer resources and may be subject to reprimand, suspension, dismissal, or other disciplinary actions by the President or his/her designee consistent with College delegations of authority, codes of conduct, personnel policies, and union agreements.

When desktop computers, administrative systems, voice systems, and networks fail to perform as expected, call the Help Desk at 978.630.9401 or send an email to helpdesk@mwcc.mass.edu. Help Desk is available for your IT support needs.
MASSACHUSETTS TRESPASS ACT

MWCC is governed by the Massachusetts Trespass Act, enacted June 2, 1969, Chapter 266, Section 123 Trespassing Upon State Land; Public Institutions; Trespass; Penalty: Whoever willfully trespasses upon land or premises belonging to the Commonwealth, or to any authority established by the general court for purposes incidental to higher education, appurtenant to a public institution of higher education, any correctional institution of the Commonwealth, Tewksbury hospital, Soldiers' Home in Massachusetts, Soldiers' Home in Holyoke, any public institution for the care of the mentally ill and developmentally disabled persons, any Massachusetts training school or state charitable institution, or upon land or premises belonging to any county and appurtenant to a jail, house of correction or courthouse, or whoever after notice from an officer of any of said institutions to leave said land, remains thereon, shall be punished by a fine of not more than fifty dollars or by imprisonment for not more than three months.

Additionally, Chapter 266, Section 120 Entry Upon Private Property After Being Forbidden as Trespass; Prima Facie Evidence; Penalties; Arrest; Tenants or Occupants Excepted: Whoever, without right enters or remains in or upon the dwelling house, buildings, boats, or improved or enclosed land, wharf, or pier of another, or enters or remains in a school bus, as defined in section 1 of chapter 90, after having been forbidden to do so by the person who has lawful control of said premises, whether directly or by notice posted thereon, or in violation of a court order pursuant to section thirty-four B of chapter two hundred and nine A, shall be punished by a fine of not more than one hundred dollars or by imprisonment for not more than thirty days or both such fine and imprisonment. Proof that a court has given notice of such court order to the alleged offender shall be prima facie evidence that the notice requirement of this section has been met. A person found committing such trespass may be arrested by a sheriff, deputy sheriff, constable or police officer and kept in custody in a convenient place, not more than twenty-four hours, Sunday excepted, until a complaint can be made against him for the offence, and he may be taken upon a warrant issued upon such complaint.

POLICY ON STUDENT EXPRESSION

The College recognizes and supports the rights of students to engage in constitutionally protected expressive activities on campus, including speaking, non-verbal expression, distributing literature, displaying signage and circulating petitions. Expressive activities may be conducted at any publicly accessible outdoor area on campus. Expressive activities may also be conducted in the lobby and common areas inside the main academic building. Nothing in this policy shall be interpreted as limiting expressive activities at any other publicly accessible location on College property so long as the expressive activity or related student conduct does not disrupt College activities or functions or violate any other applicable College policies. Disruptive activities, which are generally prohibited, may include obstructing building entrances or exits, walkways, sidewalks, vehicular or pedestrian traffic on or adjacent to campus, and/or interfering with the College’s academic mission, classes, meetings, events, ceremonies or with other essential processes of the College. The College reserves the right to impose reasonable and content-neutral time, place and manner restrictions on expressive activities as constitutionally appropriate and to prohibit any expressive activities that seek to incite imminent violence or constitute harassment, threats, defamation or obscenities. It shall not be inferred or implied that any expressive activity conducted in accordance with this policy is approved or endorsed by the College.

The College strongly encourages students who wish to engage in expressive activities in publicly accessible locations on campus to contact the Dean of Students in order to schedule the desired location in advance so as to minimize possible conflicts. Priority for use of specific locations is given to students who register their activities with the College. Use of any non-publicly accessible locations on campus by any student must be scheduled according to College policy.

When distributing literature on campus, it is strongly recommended that all such literature bear the name of the individual, club or organization distributing the materials. The distribution of literature for the purpose of solicitation or commercial activity is strictly prohibited.

In order to ensure that individuals and groups who are not affiliated with the College understand the College’s policies and procedures concerning expressive activities on campus, all unaffiliated individuals or groups must first contact the Dean of Students Office at 978-630-9855 at least 48 hours before engaging in any expressive activities on College property.

Fed law/1st Amendment Issues/Policy on Student Expression 2018-#t

RECORD KEEPING/DESTRUCTION OF RECORDS

The Academic Record is the only permanent record and is maintained in perpetuity. All other records will be expunged in accordance with the policies of the Massachusetts College System and the laws of the Commonwealth. Folders containing educational, admissions, medical, disability and other "non-permanent records" should be retained until five years after the date of graduation or the last day of attendance and then destroyed unless otherwise designated by the president (such as placement files). Financial aid records will be retained in accordance with pertinent state and federal regulations.
Admissions records, even for those not accepted, must be held for three years, according to Massachusetts Commission Against Discrimination Policy.

Medical records held by a college clinic or infirmary must be retained for thirty years following the student’s graduation pursuant to G.G.c11170.

**REGULATIONS & POLICIES ON HUMAN RESEARCH SUBJECTS**

The Mount Wachusett Community College Institutional Review Board (IRB) is responsible for safeguarding the rights of people who participate in research conducted by members of the college community or others on our campus. Mount Wachusett Community College is committed to the ethical guidelines set forth in federal regulations regarding any human subjects research. Any research involving human subjects conducted by MWCC faculty, staff, or students, or sponsored in whole or in part by MWCC, must be reviewed and approved prior to the start of the project. The IRB reviews all proposed research in order to objectively analyze the potential risk to research participants and to ensure that research meets federal guidelines to protect participants. The IRB process ensures that the College is meeting the objectives of protecting people’s privacy, health, and safety, and people’s ability to participate voluntarily in human subject research. For complete guidelines and IRB forms, visit the webpage of the MWCC Institutional Review Board (https://mwcc.edu/about-mwcc/offices/academic-affairs/institutional-research-board/).
MASSACHUSETTS COMMUNITY COLLEGE SYSTEM STUDENT CODE OF CONDUCT

INTRODUCTION

Mount Wachusett Community College recognizes that all students, as members of the college community, enjoy the freedom of speech and assembly, freedom of association, freedom of the press, right of petition and the right of due process. These rights do not come without responsibilities and respect for others in the College community. Attendance at the College is a privilege and not a right, and enrollment carries with it obligations in regard to conduct, both in and out of class. Students are responsible for knowing and understanding the contents of this Code. Students are responsible for abiding by the laws governing the College and are expected to observe standards of conduct set by the College.

Learning Outcomes

The College expects its students to act in a mature and responsible manner. Respect for the rights of others, openness to new and challenging ideas, civility and courtesy are examples of this expectation. The Code of Conduct process is intended to be an educational process that supports the mission of the College. This policy is therefore intended to promote personal responsibility, integrity and ethical decision making. Students who participate in this process should achieve the following learning outcomes:

- Understand how the Code supports the goals and mission of the College;
- Understand the possible impact of their choices on their academic and personal success;
- Accept personal responsibility for the choices and decisions made and the impact of their behavior on the College community;
- Reflect on their ethical obligations as a student in the College community;
- Recognize the value of the student conduct process as an educational opportunity; and
- Identify ways to address their behavior so it does not negatively impact their educational goals or the community in the future.

Application of the Code of Conduct

The Code of Conduct shall be used to address student disciplinary offenses as referenced in this policy. The Code of Conduct applies to student conduct, which occurs at the College, in any of its facilities, on any of its grounds or at any College related activity regardless of location. Under certain circumstances, the Code may also apply to off-campus conduct. Each student shall be responsible for his/her conduct from the time of admission through the actual awarding of a degree, before classes begin and after classes end, and during periods between terms of actual enrollment. The Code of Conduct shall apply to a student’s conduct even if the student withdraws from the College while a discipline matter is pending.

Discrimination, Sexual Harassment and Sexual Violence

This Code shall not be used to address complaints of discrimination, sexual harassment and sexual violence, including Title IX offenses, such as rape, sexual assault, domestic and dating violence and stalking. Those complaints shall be investigated according to the College’s Policy on Affirmative Action, Equal Opportunity and Diversity by the College’s Affirmative Action Officer or Title IX Coordinator. For more information, please contact the College’s Affirmative Action Officer or Title IX Coordinator.
STUDENT CODE OF CONDUCT DEFINITIONS

Accused Student
The student who is alleged to have violated the Student Code of Conduct.

Administrative Resolution
A resolution of a complaint, which is mutually agreed upon by the CCA and the Accused Student. An Administrative Resolution shall be put in writing by the CCA, signed by the CCA and the Accused Student and maintained in a student’s disciplinary file. An Administrative Resolution shall result in an Accused Student waiving his/her right to a Judicial Board hearing or Appeal.

Appeals Officer
The College’s senior administrator responsible for student affairs or designee.

Code of Conduct Administrator (CCA)
The College official charged with the responsibility of administering the College’s Student Code of Conduct. A member of the Massachusetts Community College Council (MCCC) shall not be selected to serve as the CCA.

College Property
Includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the College, including adjacent streets and sidewalks.

Complaint
An allegation of a violation of the Code of Conduct, which is filed with or by the CCA.

Day
Shall mean a calendar day. The number of days indicated at each level shall be considered as a maximum. All reasonable efforts shall be made to expedite the process, but the CCA may extend the time limits at his/her discretion with notice to both parties in writing, including for inclement weather and/or College closures.

Judicial Board
Members of the College community selected by the CCA to conduct a hearing when it has been determined by the CCA that a violation of the Student Code of Conduct may have occurred. Members of the Judicial Board shall act in a fair and impartial manner.

Preponderance of Evidence
The evidentiary standard used in resolving a complaint filed under this Code’s Disciplinary Process. The standard is met if the proposition is more likely to be true than not true (i.e.; more probable than not). Effectively, the standard is satisfied if there is greater than 50 percent chance that the proposition is true.

Sanctions
Disciplinary sanctions under this policy shall include, but are not limited to:

a. Verbal Reprimand -- The lightest form of disciplinary action. A verbal warning may be documented in writing.

b. Written Reprimand -- An official written notice to a student that his/her conduct is in violation of College rules or regulations and will not be tolerated.

c. Restrictions/Loss of Privileges -- Restriction or loss of privileges as a student for a specified period of time, including but not limited to: attending College classes, events and/or activities; accessing College property or specifically designated areas; or participating in College organizations.

d. Community Service -- A student may be required to perform community service as a condition of attendance at the College.
e. Educational Sanction -- A student may be assigned an educational sanction, including but not limited to: preparing a reflection paper or apology letter, developing and presenting an educational seminar, participating in training programs, meeting with academic counselors, and/or researching and proposing alternative educational sanctions.

f. Restitution -- The assessment of financial charges or other forms of recompense for any damage or loss incurred by the College or any members of the College community.

g. Probation -- A student’s status at the College is in jeopardy due to one or more violations of the Code of Conduct. Probation is a more severe sanction than a reprimand. For the duration of a stated probationary period, a student must comply with College rules and regulations or other stipulated conditions or requirements. Unless expressly authorized by the CCA, a student on probation may not represent the College in any context, run for or hold office in any student organizations or participate in intercollegiate athletic teams, intramural programs, or any student clubs or organizations.

h. Suspension -- Temporary removal from the College or a program, without financial reimbursement, for a specified period of time. A suspended student may not enter College property and loses all privileges to participate in any College activities.

i. Expulsion -- Permanent separation from the College or a program without financial reimbursement. An expelled student may not be readmitted to the College or a program and a notation of expulsion from the College may be placed on the student’s official College transcript.

Student

Includes all persons enrolled in courses at the College, both full-time and part-time, credit and non-credit. Persons who are not officially enrolled for a particular term but who have a continuing academic relationship with the College are considered “students.”

DISCIPLINARY OFFENSES

A student shall be subject to disciplinary action under this policy for engaging in acts including, but not limited to:

1. Physical violence and/or threats of physical violence.
2. Any conduct that threatens and/or endangers the health or safety of any person.
3. Creating or false reporting of bombs or other dangerous devices.
4. Extortion - The use, or the express or implicit threat of the use, of violence or other criminal means to cause harm to person, reputation, or property as a means to obtain property from someone else without his/her consent.
5. Unauthorized use of fire alarm or fire equipment.
6. Unauthorized or illegal gambling.
7. Hate crimes as defined under state or federal law.
8. Hazing as defined under state or federal law.
9. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on College premises.
10. Conduct resulting in a violation of the College’s Computer/Technology Acceptable Use policies, Email and Social Media policies and/or related Information Technology Resource policies (p. 403).
11. Failure to comply with the directions of a College official or law enforcement officer acting in the performance of their duties, including failure to identify oneself when requested to do so.
12. Use, possession, manufacturing, or distribution of alcoholic beverages, or controlled substances, including marijuana, heroin or narcotics except as expressly permitted by law. Public intoxication is prohibited (p. 394).
13. Smoking any tobacco product or use of e-cigarettes, vaporizers or inhalers in violation of state law, including in any public buildings, and in any areas prohibited under College policy (p. 425).
14. Breach of peace; including disorderly, lewd, or indecent conduct, or aiding, abetting, or procuring another person to breach the peace on College premises or at functions sponsored by, or participated in, by the College.
15. Defacement or destruction of College or personal property.
16. Attempted or actual theft of College or personal property.
17. Acting on or off-campus in a manner that substantially interferes with or disrupts the normal and/or safe operation of the College, including but not limited to disrupting or interfering in the educational process, including teaching, advising, research, administration, disciplinary proceedings, public service or other College activities or functions.
18. Verbal or physical harassment or intimidation.
19. Any unauthorized use of electronic or other devices to make an audio or video recording of any person(s) while on College premises or participating in a College-related activity without the person’s prior knowledge or without the person’s effective consent due to intoxication, drug use, mental impairment or other conditions that may impair a person’s ability to convey effective consent. This includes, but is not limited to, surreptitiously taking pictures of another person in a locker room or restroom.

20. Acts of dishonesty, including but not limited to the following:
   a. Forgery, alteration, or misuse of any College document, record, or instrument of identification;
   b. Furnishing false information to any College official, faculty member or office; or
   c. Disrupting or tampering with the election of any College recognized student organization.

21. Acts of academic dishonesty, including but not limited to the following:
   a. Use of any unauthorized assistance in taking quizzes, tests, or examinations;
   b. Dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
   c. The acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff; or
   d. Plagiarism, which is defined as the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. Taking credit for work done by another person or doing work for which another person will receive credit. Copying or purchasing other’s work or arranging for others to do work under a false name.

22. Abuse of the Disciplinary process, including but not limited to:
   a. Falsification, distortion, or misrepresentation of information during the judicial process;
   b. Disruption or interference with the orderly conduct of the judicial process;
   c. Attempting to discourage an individual's participation in, or use of, the judicial process;
   d. Attempting to influence the decision of a member of a Judicial Board prior to, and/or during the course of, the judicial proceeding:
      e. Harassment (verbal or physical) and/or intimidation of a member of a Judicial Board, College official, party to a complaint or witness participating in the judicial process;
      f. Failure to comply with the sanction(s) imposed under the Code of Conduct;
      g. Influencing or attempting to influence another person to commit an abuse of the judicial process; or
      h. Knowingly filing a false complaint under the Code of Conduct.

23. Unauthorized possession, duplication, or use of keys to any College premises or unauthorized entry to or use of College premises.

24. Unauthorized solicitation, including but not limited to sale of goods and services for personal profit.

25. Unauthorized activity that constitutes forgery.

26. Violation of state or federal laws not otherwise enumerated herein.

27. Violation of any College policies, rules, or regulations published in written copy or available electronically on the College’s website.
DISCIPLINE FOR DISRUPTIVE CONDUCT

Disrupting or interfering in the educational process in a class (or clinical site), is prohibited under this policy. If a student engages in disruptive conduct a faculty member or other College employee may address and resolve the matter informally without filing a complaint under the Code, including temporarily removing the disruptive student from a class (or clinical site). On the first occasion when a student is removed, the faculty member or other College employee is strongly encouraged to notify the CCA. In all subsequent cases of removing the same student from a class (or clinical site), the faculty member or other College employee shall notify the CCA. A faculty member or other College employee may seek assistance from Public Safety if necessary to remove a student. A student may not be permanently removed from a class (or clinical site) for a conduct-related offense except upon referral to the CCA of a complaint for administration under this policy. The CCA can exercise his/her discretion to allow the accused student to attend class (or clinical site) during the disciplinary process upon consultation with the faculty member and the Chief Academic Officer or his/her designee.

DISCIPLINE FOR ACADEMIC DISHONESTY

This policy recognizes the right of faculty to manage their class, including addressing directly with students issues of academic dishonesty. When academic dishonesty is suspected, a faculty member may choose to issue a failing grade. If the student believes that there is substantial evidence of error or injustice associated with that grade, the student may file a grievance under the Student Grievance Procedure’s Grade Appeal Process. Alternatively, a faculty member may choose not to issue a grade, but rather refer the matter directly to the CCA for administration under this policy. However, where the issuance of a failing grade by a faculty member for academic dishonesty will result in a student’s dismissal from a program (for example in nursing and other health care programs), the charge of academic dishonesty shall be directly referred to the CCA for administration under this policy, which shall be completed, where practicable, within thirty (30) days.

OFF CAMPUS BEHAVIOR

The College reserves the right to take disciplinary action against a student for off-campus conduct when such conduct adversely affects the College community, poses a threat of harm to the College community; interferes with the College’s pursuit of its objectives and mission, and/or if a student is charged with violating state or federal law. Proceedings under this Student Code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.

INTERIM MEASURES

Under certain circumstances during the Code of Conduct process interim measures may be imposed by the CCA including, but not limited to: no-contact orders, restriction/loss of privileges or interim suspension. The College reserves the right to issue an interim suspension when it reasonably concludes that a student:

(a) Poses a threat to others;
(b) Poses a threat to College property or equipment;
(c) Substantially disrupts or interferes with the normal operations of the College;
(d) Engages in off-campus conduct that adversely affects the College community; and/or
(e) Is charged with a crime in violation of state or federal law.

During an interim suspension, a student is prohibited from entering upon any College property and participating in any College activities.
CODE OF CONDUCT DISCIPLINARY PROCESS

The Disciplinary Process is initiated once a complaint is filed against a student by a member of the College community or by the CCA. This policy is not intended to prevent members of the College community from attempting to resolve matters informally. Failure to cooperate with the College’s investigation of an alleged Code of Conduct violation, including failing to appear for an Administrative Resolution meeting or a Judicial Board Hearing will result in discipline of the Accused Student by the CCA and a forfeiture of his/her rights to a hearing or appeal.

Click here to view a chart that provides an overview of the Disciplinary Process. (http://mwcc.edu/wp-content/blogs.dir/1/files/2016/05/MA-CC-System-Student-Code-of-Conduct-rev-Apr-12-2016-Overview-of-Process-1.pdf)

1. Disciplinary Process

   a. All complaints under the Code of Conduct shall be filed with or by the CCA.

   b. When the CCA files or receives a complaint alleging that a student has acted in a manner which may be in violation of the Code, the CCA initiates the disciplinary process by meeting with the Accused Student, putting him/her on notice of the alleged violation and providing him/her an opportunity to respond to the allegations. The CCA may conduct further investigation if necessary. Under certain circumstances during the Code of Conduct process interim measures may be imposed by the CCA including, but not limited to: no-contact orders, restriction/loss of privileges, or interim suspension, in a manner consistent with this Code.

   c. If the CCA determines that a violation exists, three procedural options are available.

      (1) Verbal or Written Reprimand - For low-level offenses, the CCA may issue a verbal or written reprimand to the Accused Student. Reprimands shall not be subject to a hearing before a Judicial Board or an appeal.

      (2) Administrative Resolution - An Administrative Resolution is reached only upon the mutual agreement of the CCA and the Accused Student. By accepting an Administrative Resolution, the Accused Student waives his/her right to a hearing before the Judicial Board or an appeal. If the CCA and the Accused Student cannot agree on an Administrative Resolution the matter proceeds to a Judicial Board hearing. Failure by the Accused Student to appear for an Administrative Resolution meeting with the CCA will result in discipline of the Accused Student by the CCA and a forfeiture of his/her rights to a hearing or appeal.

      (3) Judicial Board Hearing - When an Administrative Resolution cannot be reached, the CCA shall refer the alleged violation to a Judicial Board for a hearing. Please see Section 2 below for Judicial Board Hearing rules.

2. Judicial Board Hearing

   a. A hearing with the Judicial Board shall be scheduled by the CCA not later than thirty (30) days following an Accused Student’s request for a hearing. If no hearing is requested, the hearing shall be scheduled by the CCA no later than thirty (30) days from the date of the Administrative Resolution meeting.

   b. A written Statement of Charges shall be presented to the Accused Student not less than five (5) days prior to the hearing.

   c. A Judicial Board hearing is an administrative hearing. The rules of evidence do not apply.

   d. In a matter involving more than one Accused Student, the Judicial Board may permit at its discretion individual hearings for each Accused Student.

   e. The Accused Student has the right to be accompanied by any advisor of his/her own choosing and at his/her own expense. The advisor may be another student, faculty member, administrator or an attorney. The advisor may not otherwise be involved in the proceedings. An advisor’s role is limited to advising the Accused Student directly and discretely. An advisor is not permitted to participate directly in the hearing.
3. **Conduct of Hearing**

   a. A hearing is normally conducted in private.
   
   b. There shall be a record created of all hearings. The record shall be the property of the College.
   
   c. All procedural questions are subject to the final decision of the Judicial Board.
   
   d. Admission of any person(s) to the hearing shall be at the discretion of the Judicial Board.
   
   e. A hearing shall proceed as follows:
      
      • The CCA presents the Statement of Charges on behalf of the College. The CCA may present documents, materials and/or witnesses in support of the Statement of Charges.
      
      • Accused Student responds to the Statement of Charges. The student may present documents, materials and/or witnesses in response to the Statement of Charges.
      
      • Following the parties' presentations, the Judicial Board may question each party, their witnesses and/or review all information presented. The Judicial Board has the discretion to request additional documents, materials or information from either party.
      
      • While direct cross-examination by the parties is not permitted, each party will be given the opportunity to question the other by presenting questions through the Judicial Board. If the Judicial Board determines a question is relevant, the other party will be asked to respond.
      
      • The Judicial Board shall have a final opportunity to question the parties.
      
   f. After the hearing, the Judicial Board shall determine by majority vote whether the Statement of Charges has been proven.
   
   g. A Judicial Board’s decision shall be based on a preponderance of evidence standard.
   
   h. Within fifteen (15) days of the conclusion of a hearing, the Judicial Board shall issue a written decision outlining its findings and disciplinary action, if any, to the parties.

4. **Sanctions**

   A student found in violation of the College’s Code of Conduct shall be subject to sanctions, including but not limited to:
   
   a. Verbal or Written Reprimand
   
   b. Restrictions/Loss of Privileges
   
   c. Community Service
   
   d. Educational Sanction
   
   e. Restitution
   
   f. Probation
   
   g. Suspension
   
   h. Expulsion

   A student who violates the Code of Conduct while serving any of the above sanctions shall be subject to further discipline, up to and including expulsion. The intent of the College is to impose sanctions in a progressive manner, beginning with the least punitive sanction. However, depending on factors, such as the nature and severity of a student’s violation and/or prior disciplinary history, the College reserves the right to impose any of the above-referenced sanctions at any time.
5. Appeal

a. Within five (5) days of receiving the Judicial Board’s decision, either the CCA or the Accused Student may appeal the Judicial Board’s decision to the College’s Appeals Officer.

b. An appeal must be in writing and be based on a credible claim that: the hearing was not conducted in conformity with the Code of Conduct; the decision was not supported by a preponderance of the evidence presented; the sanction imposed was not appropriate in light of the Judicial Board’s decision; or new evidence exists, which was not presented at hearing because it was not reasonably known to the Accused Student at that time, and which is sufficiently relevant such that it could alter the Judicial Board’s decision.

c. The Appeals Officer shall issue a written decision within ten (10) days of receiving the appeal. The Appeals Officer may accept, reject or modify the Judicial Board’s decision or sanction.

d. The Appeals Officer’s decision shall be final.

The Massachusetts Community College System reserves the right to modify this code when, in its discretion, such action will serve the best interests of the Community Colleges or its students. The provisions of this Code shall not be construed to replace or supersede any state, federal or local laws that also may apply to students or others.

Revised April 12, 2016
STUDENT GRIEVANCE PROCEDURES
Massachusetts Community Colleges
Revised 2013

Policy Goal: Conflict Resolution
Before invoking the Student Grievance Procedure, a reasonable effort shall be made by those involved in a dispute to resolve it amicably. A dispute is most effectively handled and resolved by those closest to the problem, having the best understanding of the issues, and having the ability to formulate a mutually acceptable resolution. Therefore, it is in the best interest of the student, the potential subject of a Grievance, and the College to resolve disputes through open and cooperative dialogue. Only when such efforts are unsuccessful should the Student Grievance Procedure be invoked. Throughout all phases of the Student Grievance Procedure, all reasonable efforts shall be made to maintain confidentiality in accordance with applicable law.

Definitions
1. COMPLAINT: the informal, unwritten stage of an allegation of mistreatment.
2. DAY: as used in this policy, shall mean a calendar day.
3. GRIEVANCE: a written complaint filed by a student with the person designated by the President as the Student Grievance Officer specifically alleging an abridgment of his or her rights as a student.
4. GRIEVANT: the student filing the Grievance. The Grievant must have been a registered student of the College at the time of the alleged mistreatment.
5. INSTRUCTIONAL PERIOD: the academic semester, summer session or intersession when a grievable act or omission occurs. The Instructional Period shall end on the last day of final exams.
6. RESPONDING PARTY: the person against whom a complaint or Grievance is directed.
7. SENIOR OFFICER: senior level employee who reports to the President for the Responding Party’s work area.
8. STUDENT GRIEVANCE OFFICER: a College employee assigned responsibility for administering the Student Grievance Procedure, including the maintenance of specified records. The Student Grievance Officer shall ordinarily be the Senior Student Affairs Officer. If this individual is the person against whom the Grievance is filed, the President shall designate another College official to act as the Student Grievance Officer.
9. SUBSTANTIAL EVIDENCE OF ERROR OR INJUSTICE: for purpose of Grade Appeals, substantial evidence of error or injustice is defined as:
   a. The assignment of a course grade to a student on some basis other than performance in the course; or
   b. The assignment of a course grade to a student by resorting to unreasonable standards different from those which were applied by the same instructor to other students in that course; or
   c. The assignment of a course grade by a substantial, unreasonable and unannounced departure from the instructor’s previously articulated standards.
10. TIME: the number of days indicated at each level shall be considered as a maximum. All reasonable efforts shall be made to expedite the process, but, the President or his/her designee may extend the time limits in extenuating circumstances with notice to both parties in writing, or by mutual written agreement between the Grievant and the Responding Party.

Utilizing the Student Grievance Procedure
The Student Grievance Procedure may be used by a student to address alleged abridgment of the student's rights, as stated in the College's Student Handbook and/or Policy Guide. The student Grievant or the Responding Party may consult with the Student Grievance Officer at any time. The College's Student Grievance Officer is Jason Zelesky.

The Student Grievance Procedure may not be used to address allegations of discrimination, including sexual harassment. When a student believes that he/she has been discriminated against due to his/her race, creed, religion, color, sex, sexual orientation, gender identity, age, disability, veteran status, genetic information or national origin, the College's Affirmative Action Grievance Procedure is a mechanism for resolution. The College's Affirmative Action Grievance Procedure is contained in the College's Affirmative Action Plan. The College's Affirmative Action Officer is Peter Sennett.

If a Grievance involves a grade dispute, a student shall process the Grievance in accordance with the Student Grievance Procedure. However, if a grade dispute raises issues of discrimination or sexual harassment, the Grievance should be processed in accordance with the College’s Affirmative Action Grievance Procedure and the Affirmative Action Officer shall conduct the process in collaboration with the Senior Academic Officer or designee.
Claims of physical or sexual assault shall not proceed under the Student Grievance Procedure. A claim of physical assault alleged against a student shall be reported to the Code of Conduct Officer. A claim of physical assault alleged against an employee shall be reported to the Human Resources Office. In both cases, law enforcement authorities shall also be notified. A claim of sexual assault shall be reported to the College’s Affirmative Action Officer and/or Title IX Coordinator and law enforcement authorities shall proceed under the College’s Affirmative Action Plan. In matters involving physical or sexual assault, alleged victims are strongly encouraged to independently report the incident to the law enforcement authorities. The College’s Campus Police/Security Department can assist with the reporting process.

At any Level of the Student Grievance Procedure, either party may request mediation by contacting the Student Grievance Officer. Mediation shall be mutually agreed upon, and not unreasonably refused by either party. The Student Grievance Officer shall select an impartial mediator who shall be mutually agreed upon and not unreasonably refused by either party, make the arrangements, determine the timetable for the mediation process, and inform the parties of the timetable in writing. Where practicable, a mediation session shall be conducted no later than thirty (30) days after requested and agreed to by the parties. The purpose of mediation is to resolve the dispute to the satisfaction of both parties. If a mediated resolution cannot be achieved, the Grievant may proceed with the Grievance Process. The Grievant has the right to be accompanied by any advisor of his/her own choosing and at his/her own expense throughout the grievance process. The advisor may be an attorney. An advisor’s role is limited to personally advising the Grievant only. An advisor is not permitted to participate directly in any aspect of the grievance process.

Except for under extenuating circumstances, as determined by the President or his/her designee, failure by a party to comply with the Student Grievance Procedure during the course of a Grievance may result in the waiving of the noncompliant party's rights under the Procedure.

**Grade Appeals**

Complaints or Grievances filed in connection with assigned grades represent a special case within the Grievance procedure. Grading reflects careful and deliberate assessment of a student's performance by the instructing professional(s). As such decisions are necessarily judgmental the substance of those decisions may not be delegated to the Grievance process. Nevertheless, the College recognizes that in rare cases the process of grading may be subject to error or injustice.

Except as otherwise provided by a separate appeal procedure for a clinical program as approved by the President of the College, a student who alleges an error or injustice in the grading process may file a Grievance under the Student Grievance Procedure. A grade appeal Grievance shall proceed no further than Level Two, Step Two. For purposes of a grade appeal, the Senior Academic Officer of the College, or his/her designee, shall serve as the Student Grievance Officer throughout the grade appeal process.

If the faculty member who assigned the challenged grade is no longer employed by the College or is not available within the timelines specified (see "Time" definition), the student may initiate his/her Level One complaint with the chief administrator of the appropriate instructional division (who shall be identified by the Senior Academic Officer).

If at any level substantial evidence of error or injustice is produced, the grading process may be remanded to the instructor of record for reassessment. If after reassessment, the dispute remains unresolved, the matter shall be referred to the Senior Academic Officer, or his/her designee, for final review. If the instructor of record is no longer available, the Senior Academic Officer or his/her designee shall instead reassess the grading process.

**Level One — Informal Procedure**

This is the informal stage where most complaints are resolved. The Grievant and the Responding Party should consult with the Student Grievance Officer at this time.

A Grievant initiates the informal phase of the Grievance process. The Grievant shall first present his/her complaint orally and informally to the Responding Party. This shall be done in a reasonable period of time, not exceeding thirty (30) calendar days following the instructional period when a grievable act or omission occurs.

The Responding Party must respond to the Grievant’s complaint within ten (10) days. Though this phase of the process is informal, the parties may present their positions in writing. If the matter is not resolved informally within ten (10) calendar days from the date a response to the complaint was due, the Grievant may proceed to Level Two.

**Level Two — Formal Procedure**

Prior to filing a written Grievance at Level Two, a Grievant must consult with the Student Grievance Officer. The Responding Party should also consult with the Student Grievance Officer at this phase of the process.
**L2-Step One**
The Student Grievance Officer shall notify the parties in writing when a complaint is not resolved informally at Level One.

The Grievant may, within ten (10) calendar days after receipt of the Student Grievance Officer's written notice, file with the Student Grievance Officer a Grievance. The Grievance shall contain the following information: the name and title of the person(s) against whom the Grievance is directed, a statement of all known facts, documents and materials supporting the grievance, a list of individuals who have information pertinent to the grievance, and the relief sought by the Grievant. All supporting documents, if any, shall be attached to the grievance as part of the Grievance. The Grievance shall also state the date it is filed and that it is being filed at "Level Two, Step One."

The Grievance may be filed with the Student Grievance Officer by email, regular mail, certified mail, or in hand. Thereafter, the Student Grievance Officer shall deliver the Grievance, and all supporting documents, if any, to the Responding Party within five (5) calendar days. If the Responding Party is unavailable at the time the Grievance is filed, the Student Grievance Officer shall use reasonable means to deliver the Grievance within a reasonable period of time.

The Responding Party shall forward a written Level Two - Step One response to the Student Grievance Officer within ten (10) calendar days of his/her receipt of the Grievance. The Student Grievance Officer shall deliver the written response to the Grievant within five (5) calendar days of receipt.

**L2-Step Two (Supervisor Level)**
If the Grievance is not resolved to the satisfaction of the Grievant within ten (10) calendar days after his/her receipt of the Step One response, or if no written response is submitted, the Grievant may within ten (10) calendar days after the written response was received or due, request the Student Grievance Officer to forward the Grievance and response, if any, to the supervisor of the Responding Party, with a copy to the Senior Officer of the work area of the Responding Party.

The supervisor shall investigate the Grievance and confer with the Senior Officer. The supervisor shall forward his/her written decision to the Student Grievance Officer, within ten (10) calendar days after receipt of the Step Two Grievance. Thereafter, the Student Grievance Officer shall deliver the decision to the Grievant and the Responding Party within five (5) calendar days.

At any time before the issuance of the Supervisor's Step Two decision, the Senior Officer may request that the parties meet to discuss the issue and attempt to resolve it.

Grade appeals do not go beyond this Step (Level Two - Step Two) per the section on Grade Appeals.

No new issues or allegations may be raised by either party after Step Two.

**L2-Step Three (Student Grievance Committee Level)**
If the Grievance is not resolved to the satisfaction of the Grievant within the period allowed at Level Two - Step Two, the Grievant may request a hearing before a Student Grievance Committee. Such a request must be in writing and presented to the Student Grievance Officer within ten (10) calendar days from the issuance of the Supervisor's Level Two - Step Two decision.

Within ten (10) calendar days of the Student Grievance Officer's receipt of the Grievant's request for a hearing, the Student Grievance Officer shall arrange a hearing before a Student Grievance Committee. The Student Grievance Officer shall use reasonable efforts to schedule the hearing at a time mutually convenient to the parties. At least twenty-four (24) hours prior to the hearing, the Student Grievance Officer shall provide each member of the Committee and all parties to the Grievance with copies of the Grievance, responses to the Grievance, decisions issued, and all relevant supporting documentation and materials. The Committee's make-up and hearing rules are discussed later in this policy.

The Committee shall deliver its findings and recommendations to the Student Grievance Officer within ten (10) calendar days following the hearing. A copy of the Committee's findings and recommendations shall be delivered to the President or his/her designee, within five (5) calendar days of receipt.

Within ten (10) calendar days of the President's receipt of the Committee's findings and recommendations, the President or his/her designee, shall issue a written statement accepting, modifying or rejecting the Committee's recommendations.

The decision of the President, or his/her designee, shall be final and binding on all parties.
Membership of the Student Grievance Committee

The composition of the College's Student Grievance Committee shall consist of five members: one student, one unit professional, one faculty member, one non-unit professional and one unit classified employee. The President or his/her designee shall appoint each member from among the recommendations submitted by the Student Grievance Officer.

Service on the Committee shall be voluntary, provided that a member who has a personal interest in a particular Grievance shall be ineligible to serve on the Grievance Committee. All College employees serving on the Student Grievance Committee, and acting within the scope of their official duties on the Committee, shall be protected from liability to the full extent provided under Massachusetts General Laws, Chapter 258, and eligible for indemnification as provided for pursuant to M.G.L. Chapter 258, Section 9.

All Student Grievance Committee members, as well as all others in attendance at a student Grievance proceeding, shall maintain the confidentiality of the proceedings. The Student Grievance Officer shall attend all Committee hearings but shall not vote.

Student Grievance Committee Hearing and Decision Guidelines

The following guidelines provide the framework for conducting a Student Grievance Committee Hearing:

1. Prior to the hearing, the newly impaneled Committee shall meet to elect a Committee Chairperson. The Chairperson shall be selected by a simple majority vote.
2. The Chairperson on the Committee shall be responsible for conducting the hearing and drafting the decision of the Committee, but shall vote only in the event of a tie.
3. All hearings shall be closed and deliberations of the Committee shall be confidential and conducted in private.
4. The Grievant and the Responding Party shall be in attendance at the hearing. Each party may be accompanied by an advisor at the hearing. The advisor, however, may not participate in the hearing or question witnesses. Either party may at anytime during a hearing consult in private with his/her advisor.
5. Witnesses may be asked by the Committee to remain outside of the hearing room until they are called to testify.
6. The Grievant will address the Committee first. The Grievant will state the nature of his/her Grievance and may present relevant evidence and/or witnesses in support of the Grievance.
7. The Responding Party may respond to the Grievant's allegations and present relevant evidence and/or witnesses in opposition to the Grievance.
8. Once the parties have presented their respective positions, the Committee may question the parties and/or witnesses.
9. After the Committee has questioned the parties, each party will be given the opportunity to question the other party and their respective witnesses. All questions must be directed through the Committee. If the Committee determines that a question is relevant to the Grievance, the party or witness to whom it is addressed will be asked to respond.
10. Following the parties' questioning of each other, the Committee will have another opportunity to question the parties and witnesses.
11. Hearings before the Committee shall not be subject to the formal rules of evidence. In all cases, the hearing shall be conducted in a fair and impartial manner.
12. If a party to a Grievance fails to appear for a scheduled hearing, the Committee has the discretion to proceed with the hearing and issue its findings and recommendations in the party's absence.
13. The decision of the Committee shall be based on the relevant evidence presented at the hearing. The decision shall be in writing and include: a list of all documentary evidence and witnesses presented; a summary of the testimony offered by both parties and their respective witnesses; the findings of the Committee and its recommendations. Copies of the decision and recommendations of the Student Grievance Committee shall be forwarded by the Student Grievance Officer to the President or his/her designee for review and final disposition. The President or his/her designee shall accept, reject or modify the Committee’s decision and/or recommendations and issue a final written decision.
14. All findings and decisions reached under this Procedure shall be based on a “preponderance of evidence” standard (i.e.; more likely than not). Any action taken hereunder shall be reasonable under the circumstances, in accordance with applicable college rules and procedures and be grounded in fundamental fairness.

Withdrawal

A student may withdraw his/her Grievance at any time. Withdrawal must be accomplished in writing or by oral agreement confirmed in writing.
Retaliation
No member of the College community shall retaliate or threaten to retaliate against, interfere with, restrain, or coerce any student in the exercise of his/her rights under the Student Grievance Procedure or his/her participation in any Grievance proceedings.

Collateral Rights of Person Grieved by Student
If the recommendations made at any level of the Grievance procedure result in sanctions against a college employee, the sanctions shall be regarded as administrative actions subject to all conditions of applicable collective bargaining agreements and College or Board of Higher Education personnel policies.

Alternative Forums
Filing a Grievance in accordance with the Student Grievance Procedure in no way abrogates a student’s right to file a complaint with an appropriate state or federal agency or in another forum.

Student Complaints
Students seeking a forum to file a complaint about MWCC outside of the college may address their concerns to either the Board of Higher Education found at this site (http://www.mass.edu/forstufam/complaints/complaints.asp) or (for matters requiring attention related to Massachusetts state law) the Commonwealth of Massachusetts Attorney General’s Office at this site (https://www.mass.gov/how-to/file-a-civil-rights-complaint/).

Online Students
Please note that the Student Grievance Procedures apply to online complaints as well. Please review our online student complaints webpage (https://mwcc.edu/academics/online-learning/state-authorization-online-learning/) for more information.
TOBACCO-FREE FACILITY POLICY STATEMENT

In compliance with Massachusetts General Law, Chapter 71, Section 37H, the buildings of Mount Wachusett Community College will be designated as a tobacco-free environment. Employees, students, and visitors are restricted from using any tobacco product, including smoking or chewing tobacco, within any college building. Mount Wachusett Community College accepts this law as binding upon its students and employees as well as visitors to the campus. Smoking is prohibited in all state vehicles and in all buildings owned and leased by Mount Wachusett Community College. At the Gardner campus, smoking is only permitted in the two (2) designated smoking gazebos, located adjacent to parking lots B and C.

The college will fully implement this policy and all applicable laws, regulations, and local ordinances.

Mount Wachusett Community College is committed to a tobacco-free environment; and, reserves the right to initiate disciplinary procedures for employees, students and any individual found to be in violation of this policy.

RATIONALE FOR POLICY

There is considerable evidence that concentrations of smoke are harmful to non-smokers, as well as smokers. Findings of the Surgeon General indicate that tobacco use in any form, active and passive, poses a significant health hazard. Mount Wachusett Community College has a responsibility to its employees and students to provide a safe and healthy environment. In its commitment to this, the campus facilities will be tobacco-free effective January 2, 2014 with the following exception: at the Gardner campus only, smoking will be permitted in the two (2) designated smoking gazebos, located adjacent parking lots B and C.

The Tobacco-Free Policy is intended to eliminate exposure to second-hand smoke, provide an environment supportive of tobacco-free lifestyles, eliminate the risk of accidental fire, eliminate the health risks associated with expectoration from smokeless tobacco, and eliminate the environmental impact of cigarette litter. It applies to all faculty members, staff, students, visitors, customers, vendors, consultants, contractors and their employees.

IMPLEMENTATION & ENFORCEMENT

The Division of Human Resources will work collaboratively with all appropriate college offices to coordinate efforts for policy notification, education, promotion, support, and assessment to ensure successful implementation.

All campus constituents have a collective responsibility to promote the safety and health of the campus community and, therefore, share in the responsibility of policy compliance. Individuals observed using tobacco in any form are to be reminded in a professional and courteous manner of the college policy. Referrals for addressing repeated violations of the policy should be addressed to the Division of Human Resources department for employees, the Senior Dean of Students for students and Campus Police for visitors and guests.

DEFINITIONS

Tobacco Products: To include the personal use of any lighted or unlighted cigarette (clove, bidis, kretek), e-cigarettes, cigars, cigarillos, pipes, hookah products, and any other smoking product including vapes. Additionally, all spit or spitless tobaccos, dissolvable tobacco, dip, chew, snuff or snus, in any form is also considered a tobacco product for the purpose of this policy.

Personal Use: includes, but is not limited to, smoking, vaping, chewing or ingesting tobacco products. Personal use is also defined as possession of any lit tobacco product. Personal use does not preclude simple possession of unlit tobacco products, tobacco products as a prop in performance art or a material in artistic work, or in health awareness related courses, programs or training sessions, or any other activity protected by academic freedom.

Campus: All college grounds to include Mount Wachusett Community College owned, leased, supervised, or controlled properties and college owned, leased, or rented vehicles. This includes but is not limited to all college sidewalks, parking lots, landscaped areas, recreational areas, athletic fields, wooded areas; and in the interior of all buildings.

Individuals: To include all employees of the College, students of the College, visitors, customers, vendors, consultants, contractors and their employees.

STUDENT & EMPLOYEE SUPPORT FOR TOBACCO-FREE ASSISTANCE

Students may access support for smoking cessation and other related tobacco-free lifestyle supports through the MWCC Health Services Office. Additional resources are posted through the college’s website and portal.
REVIEW

This policy will be reviewed annually by the Union/Management Safety Committee and the college’s Leadership Team. Mount Wachusett Community College reserves the right to make changes to this policy at any time. Revisions and updated information concerning changes in this policy will be made available through official college publications including the College Catalog and Student Handbook and the Personnel Policies published electronically and in print.

APPENDICES

APPENDIX A

Medical and Psychological Effects of Drug and Alcohol Abuse

1. OVERDOSE

An overdose can happen due to uncertain purity, strength or even type of drug one gets illegally. It can also happen due to increased tolerance, because one needs increased dosages to achieve the same effect. An overdose can cause psychosis, convulsions, coma or death. While the risks of drug overdose are more common and frequently more severe, extreme quantities of alcohol can similarly result in psychosis, convulsions, coma or death.

2. DEPENDENCE

Continued use of drugs or alcohol can lead to a psychological and/or physical need for them.

3. ILL HEALTH

Long-term drug or alcohol use can destroy a healthy body and mind. Generally, drug or alcohol abuse can lead to organic damage, mental illness, malnutrition, failure to get treatment for existing diseases or injuries, and even death. Chronic drinking also has been associated with increased rates for heart disease, liver damage, ulcers and gastritis, and adrenal and pituitary gland damage. Injection of drugs presents increased risks of getting infectious diseases.

Drug and alcohol use can also affect the health of a child in the womb and result in birth defects, fetal alcohol syndrome, drug dependence or death. Because the quantity of alcohol likely to injure a developing fetus is unknown, the United States Surgeon General has specifically counseled women not to drink any alcohol during pregnancy.

4. ACCIDENTS

When drugs or alcohol affect an individual’s perception and/or reaction time, accidents become more likely. For any member of MWCC who is experiencing substance abuse problems, MWCC stands ready to offer supportive services and referral for treatment as appropriate and available.

Information concerning substance abuse and rehabilitation counseling programs and the applicability of employee and student insurance is available through the following college offices: counseling services, health services, human resources, and vice president of student services and the senior student affairs office.

APPENDIX B

Treatment Coverage

1. TREATMENT COVERED BY REQUIRED STUDENT MEDICAL INSURANCE

Massachusetts General Laws, Chapter 15A, Sec. 7B (St. 1988, Chapter 23, Sec.22) and 117 Code of Massachusetts Regulations Section 3.04 require that students certify their participation in a qualifying student health insurance program, or in a health benefits’ program with comparable coverage. Students who do not possess adequate medical insurance must purchase the Massachusetts Regional Community Colleges' Student Accident and Sickness Insurance Plan. This plan provides the following benefits related to drug and alcohol abuse:
Alcoholism Treatment

Benefits are payable for the treatment of alcoholism subject to all terms and conditions of the policy.

1. In the case of benefits based upon confinement as an inpatient in an accredited or licensed hospital or in any other public or private facility thereof providing services especially for the detoxification or rehabilitation of intoxicated persons or alcoholics and that is licensed by the Department of Public Health for those services, or in a residential alcohol treatment program as referred to in section 24 of chapter 90 of the Massachusetts Insurance Laws, benefits will not exceed a maximum of 30 days in any policy year.

2. In the case of outpatient benefits, benefits shall not exceed a maximum of $500 over a 12-month period. Services must be furnished by:
   a. an accredited or licensed hospital; or
   b. by any public or private facility or portion thereof providing services especially for the rehabilitation of intoxicated persons or alcoholics and that is licensed by the Department of Public Health for those purposes. Consultants or treatment sessions furnished by a facility in this clause shall be rendered by a physician or psychotherapist fully licensed under the provisions of chapter 112 of the Massachusetts Insurance Laws who devotes a substantial portion of his time treating intoxicated persons or alcoholics.

Drug Abuse Treatment Benefit

Benefits are payable for the treatment of drug abuse subject to all terms and conditions of the policy and the provisions of this endorsement.

1. Benefits will be payable upon confinement as an inpatient in an accredited or licensed hospital, a residential treatment program, or in any other public or private facility thereof providing services especially for the treatment of drug abuse and that is licensed by the Department of Public Health for those services. Benefits will not exceed a maximum of 30 days in any policy year.

2. Out-patient benefits for treatment of drug abuse shall not exceed a maximum of $500 over a 12-month period. Services must be furnished by an accredited or licensed hospital, any public or private facility or portion thereof providing services especially for the treatment of drug abuse and that is licensed by the Department of Public Health for those purposes. Consultants or treatment sessions furnished by such a facility in this provision shall be rendered by a physician who devotes a substantial portion of his/her time treating drug abuse.

APPENDIX C

Definitions of Forcible Sex Offenses

Forcible sex offenses are defined as "any sexual act directed against another person, forcibly and/or against that person's will when the victim is incapable of giving consent.” Forcible offenses include:

FORCIBLE RAPE

The carnal knowledge of a person forcibly and against that person's will; or not forcibly or against the person's will where the victim is incapable of giving consent because of his/her youth or because of his/her temporary or permanent mental or physical incapacity.

FORCIBLE SODOMY

Oral or anal sexual intercourse with another person, forcible and/or against the person's will; or not forcibly or against the person's will where the victim is incapable of giving consent because of his/her youth or because of his/her temporary or permanent mental or physical incapacity.

SEXUAL ASSAULT WITH AN OBJECT

To use an object or instrument to unlawfully penetrate, however slightly, the genital or anal opening of the body of another person, forcibly and/or against the person's will; or not forcibly or against the person's will where the victim is incapable of giving consent because of his/her youth or because of his/her temporary or permanent mental or physical incapacity.
FORCIBLE FONDLING
The touching of the private body parts of another person for the purpose of sexual gratification, forcibly and/or against the person's will; or not forcibly or against the person's will where the victim is incapable of giving consent because of his/her youth or because of his/her temporary or permanent mental or physical incapacity.

Definitions of Non-Forcible Sex Offenses
Non-forcible sex offenses are defined as "unlawful, non-forcible sexual intercourse." Non-forcible sex offenses include:

INCEST
Non-forcible sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law.

STATUTORY RAPE
Non-forcible sexual intercourse with a person who is under the statutory age of consent (16 in Massachusetts).

AFFIRMATIVE ACTION
THE FOLLOWING POLICY WAS ISSUED IN DECEMBER 2014.


POLICY ON AFFIRMATIVE ACTION, EQUAL OPPORTUNITY, AND DIVERSITY

A. OVERALL POLICY STATEMENT
The Community Colleges have carefully developed and outlined the major elements of an effective Affirmative Action, Equal Opportunity & Diversity Policy with the understanding that a successful policy requires more than the knowledge of laws, regulations and current government requirements. It demands leadership, vision, and commitment to fully comprehend what challenges Community Colleges face in preparing students for the twenty-first century. The Colleges, both collectively and individually, commit themselves to not only the valuing of human dignity, but to the appreciation of the necessity of providing all members of the College Community an experience that equips them to relate to all persons and groups in the increasingly global and diverse world in which we all live and work.

The Community Colleges wish to take a role of leadership in providing an environment where equity and diversity are truly valued beyond verbal commitments and mere tolerance. This leadership role requires that we all share responsibility for making constructive campus-wide changes in response to the principles set forth in this Policy. By turning our collective energies into making Affirmative Action an integral part of campus life, we continue to fulfill our mission in developing the talents and potential of all members of our College Communities and our society.

B. POLICY STATEMENT ON AFFIRMATIVE ACTION, EQUAL OPPORTUNITY, AND DIVERSITY
The Board of Higher Education of the Commonwealth of Massachusetts is responsible under Chapter 15A of the General Laws of the Commonwealth of Massachusetts for the overall governance of the public higher education system, which includes the fifteen Community Colleges. The Board of Higher Education and the Boards of Trustees of the Community Colleges maintain and promote a policy of non-discrimination on the basis of race, creed, religion, color, gender, gender identity, sexual orientation, age, disability, genetic information, maternity leave, military service and national origin ("protected class(s)/classification(s)."

Non-discrimination requires the elimination of all existing unlawful discriminatory conditions, whether purposeful or inadvertent. The Community Colleges are continuing to systematically examine all policies and procedures to be sure that they do not, if implemented as stated, operate to the detriment of any person on the basis of a protected classification. The Colleges shall require that the practices of those responsible in matters of employment and education, including all supervisors and faculty, are non-discriminatory. Should the College discover discrimination in treatment or effect in any employment, educational or service decision, action, inaction or practice within the College, all appropriate corrective and/or disciplinary actions shall be taken under the direction of the President of the College subject to any applicable collective bargaining agreement or other policy or procedure of the College.

The Community Colleges are committed to a policy of Affirmative Action, equal opportunity, equal education, non-discriminatory, and diversity. They are committed to providing a learning, working and living environment for their students, employees and other members of the College Community, which values the diverse backgrounds of all people. The Colleges are committed to assuring that the “College Experience” is one that challenges, empowers, supports, and prepares its students to live in, work in, and value our increasingly global and diverse world. The Colleges believe that the diversity of socio-economic, racial, ethnic, religious, gender, sexual orientation, age and disability backgrounds of members of the College Community enriches the institutions and their various constituencies. The Colleges will not tolerate behavior based on bigotry, which has the effect of discriminating unlawfully against any member of their communities.

The Community Colleges provide equal access to educational, co-curricular and employment opportunities at the Colleges for all applicants, students and employees in compliance with all applicable laws, regulations and policies. All benefits, privileges and opportunities offered by the Colleges are available to all students, employees and other persons having dealings with the institutions on a non-discriminatory basis. The Colleges are committed to taking a pro-active Affirmative Action posture with respect to their recruitment, selection and promotion of students and employees.

The purpose of the Affirmative Action component of this Policy is to establish a set of programmatic objectives, which shall provide for the recruitment, access and advancement of qualified persons from within the protected classes/classifications recognized under this Policy with respect to employment and enrollment opportunities. The intent of this Policy is to responsibly recognize, and to whatever extent possible, resolve the effects of past societal discrimination and the impact which that discrimination has had, not only on victims of such discrimination, but on the total academic, educational and social system as well. It is not intended and should not be used to discriminate against any applicant, employee, or student because of a protected classification.

In response to that recognition, the Colleges, through their Boards of Trustees and Presidents, fully endorse the plan of action set forth in this Policy and shall oversee and monitor its implementation through the Affirmative Action Officer and other assigned personnel.

The following specific policies are established:

- Equal opportunity and affirmative action shall apply to all segments of the College; full and part-time employment; day and continuing education; the curriculum and offerings of the College.

- Equal opportunity and affirmative action shall be applied to the recruitment process for employment and/or access to education.

- Students will have access to the College, programs of study, activities, and other resources intended to serve them, according to the policies of the individual Colleges.

- Equal employment opportunity and affirmative action will be realized in all personnel employment, including recruitment, application for employment, hiring, benefits, compensation, training, promotion, and termination.

- All policies, procedures, privileges, and conditions of the College will follow and incorporate applicable equal opportunity and affirmative action rules and regulations.

The above-stated policies are intended to be applied broadly with the goal of promoting equal opportunity and diversity in Community Colleges. The Community Colleges pledge to apply all policies consistently, fairly, and vigorously. Attempts to subvert or abuse these policies will not be tolerated. Appropriate disciplinary action will be taken in the case of an infraction. Such disciplinary action shall be consistent with the appropriate collective bargaining agreement, if applicable.

All policies are made in compliance with laws and regulations and executive orders promulgated by the federal and state governments and other appropriate agencies and authorities, where applicable.
C. DEFINITIONS

ADA/504 COORDINATOR: A College employee assigned the responsibility for maintaining the College’s compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Alleged violations of the ADA or Section 504 shall be subject to the Affirmative Action Policy’s Complaint Procedure as administered by the Affirmative Action Officer. The ADA Coordinator is Peter Sennett, Vice President of Human Resources & Payroll and Affirmative Action Officer and can be contacted at (978) 630-9160. The 504 Coordinator is Amy LaBarge and can be contacted at (978) 630-9330.

AFFIRMATIVE ACTION OFFICER (“AAO”): A College employee assigned the responsibility of administering the College’s Affirmative Action Policy. The Affirmative Action Officer may also serve as the College’s Title IX Coordinator and/or the ADA/504 Coordinator. If the Affirmative Action Officer is the person against whom the complaint is filed, the President shall designate another College official to act as the Affirmative Action Officer for purposes of administering the Affirmative Action Policy. The Affirmative Action Officer is Peter Sennett, Vice President of Human Resources & Payroll and Affirmative Action Officer and can be contacted at (978) 630-9160.

COMPLAINT: A written complaint alleging a violation of the Affirmative Action Policy.

COMPLAINANT: The student(s) or employee(s), or applicant for admission or employment, filing the complaint.

CONSENT: “Consent” must be informed, voluntary, and mutual, and can be withdrawn at any time. There is no consent when there is force, expressed or implied, or when coercion, intimidation, threats, or duress is used. Whether a person has taken advantage of a position of influence over another person may be a factor in determining consent. Silence or absence of resistance does not imply consent. Past consent to sexual activity with another person does not imply ongoing future consent with that person or consent to that same sexual activity with another person.

If a person is mentally or physically incapacitated or impaired so that such person cannot understand the fact, nature, or extent of the sexual situation, there is no consent; this includes impairment or incapacitation due to alcohol or drug consumption that meets this standard, or being asleep or unconscious.

DAY: As used in this policy, shall mean a calendar day.

Equal Opportunity: A College’s effort to ensure that all personnel and academic decisions, programs and policies are formulated and conducted in a manner which will ensure equal access for all people and prevent discrimination. As part of this effort, a College will ensure that employment and academic decisions, programs and policies will be based solely on the individual eligibility, merit or fitness of applicants, employees and students without regard to race, color, creed, religion, national origin, age, disability, sex, marital status, military service, gender identity, genetic information, sexual orientation or political or union affiliation.

INSTRUCTIONAL PERIOD: The academic semester, summer session or intersession when a Complainant knows or should have known of an act or inaction in violation of this Policy. The Instructional Period shall end on the last day of final exams.

PREPONDERANCE OF EVIDENCE: The evidentiary standard used in resolving a complaint filed under this Policy’s Complaint Procedure. The standard is met if the proposition is more likely (http://en.wikipedia.org/wiki/Probability/) to be true than not true (i.e.; more probable than not). Effectively, the standard is satisfied if there is greater than 50 percent chance that the proposition is true.

PERSONAL ADVISOR: As referred to under the Complaint Procedure of this Policy, a personal advisor for a unit member shall be a union representative or College employee, for a non-unit employee it shall be a College employee, and for a student it shall be another student, a College administrator or faculty member. In cases involving Title IX Offenses, the personal advisor may be an attorney.
PROHIBITED CONDUCT: The following conduct is prohibited under this policy:

**Discrimination**: An intentional or unintentional act which adversely affects employment and/or educational opportunities because of a person’s membership in a protected class or association with a member(s) of a protected class. Discrimination may be classified as either disparate impact (practices that are facially neutral in their treatment of different groups but that in fact fall more harshly on one group than another and cannot be justified by business necessity) or disparate treatment (treatment of an individual that is less favorable than treatment of others based on discriminatory reasons). A single act of discrimination or discriminatory harassment may be based on more than one protected class status. For example, discrimination based on anti-Semitism may relate to religion, national origin, or both; discrimination against a pregnant woman may relate to sex, marital status, or both; or discrimination against a transgender individual may relate to gender identity, sex or sexual orientation.

Examples of behavior that may constitute discrimination, include, but are not limited to:

- Differences in salaries or other benefits that are paid to one or more men or women if the differences are not based on a bona fide occupational qualification.
- Differences in terms, conditions and privileges of employment (including, but not limited to hiring, promotion, reassignment, termination, salary, salary increases, discipline, granting of tenure, selection for awards, etc.) on a prohibited basis.
- Unlawful disparity of treatment in educational programs and related support services on the basis of membership in a legally protected class.
- Developing position descriptions or qualifications, which, without lawful justification, are so specific as to have a disparate exclusionary impact on a group of individuals because of their membership in a protected class.
- Singling out, treating or causing to treat persons of one protected class differently from others because of assumptions about or stereotypes of the intellectual ability, interest, or aptitudes of persons of those aforementioned groups.
- Limiting access to housing, or participation in athletic, social, cultural or other activities to students because of membership in a protected class not based on a bona fide requirement or distinction.
- Failing or refusing to hire or promote a person because of their age.
- Classifying a position or positions as unsuitable for persons of certain religions.
- Forcing employees or students to participate or not participate in a religious activity as a condition of their employment or education.
- Excluding members of a certain race or national origin from a category of positions or from a department or division.
- Restricting the number of Vietnam era veterans or qualified persons with disabilities in a category of positions or in a department or division.
- Using information on marital or parental status for employment decisions where the use of such information has a disparate impact on persons of one gender or sexual orientation.
- Advising students of similar interests and backgrounds differently because of their gender or gender identity.
- Diverting a discussion of a student’s or employee’s work toward a discussion of his or her physical attributes or appearances.
- Forcing female students to sit in the back of the class on the stereotyped assumption that each of them has a lower aptitude for learning that particular subject than male students.
- Placing unreasonable expectations upon students of particular races or national origins on the basis of stereotyped assumptions that members of those protected classes have a better aptitude for certain academic subjects than students not of those races or national origins.
Discriminatory Harassment: A form of unlawful discrimination including verbal and/or physical conduct based on legally protected characteristics and/or membership in a protected class that:

- has the purpose or effect of creating an objectively intimidating, hostile or offensive work or educational environment;
- has the purpose or effect of unreasonably interfering with an individual’s work or learning performance; or
- otherwise unreasonably adversely affects an individual’s employment or educational opportunities.

For purposes of this Policy, conduct constitutes hostile environment harassment when it:

- is targeted against an individual(s) on the basis of his or her membership in a protected class;
- is not welcomed by the individual(s); and
- is sufficiently severe or pervasive that it alters the conditions of education or employment and creates an environment that a reasonable person would find intimidating, hostile or offensive.

The determination of whether an environment is “hostile” is based on the totality of the circumstances. These circumstances could include the frequency of the conduct, its severity, and whether it is threatening or humiliating. Simple teasing, offhand comments and isolated incidents (unless extremely serious) will not amount to hostile environment harassment under this Policy.

Examples of behavior that may constitute discriminatory harassment include, but are not limited to:

- Physically harassing another individual (or group of individuals) because of that person’s or persons’ membership in a protected class by assaulting, touching, patting, pinching, grabbing, staring, leering at them, making lewd gestures, invading their personal space, blocking their normal movement, or other physical interference.
- Encouraging others to physically or verbally abuse an individual (or group of individuals) because of that person or persons’ membership in a protected class.
- Threatening to harm an individual (or group of individuals) because of that person or persons’ membership in a protected class.
- Directing epithets or slurs at an individual (or group of individuals) because of that person or persons’ membership in a protected class.
- Displaying hostile, derogatory and/or intimidating symbols/objects to an individual (or group of individuals) because of that person or persons’ membership in a protected class.

Gender-Based Harassment: Unwelcome conduct of a nonsexual nature based on a student’s actual or perceived sex, including conduct based on gender identity, gender expression, and nonconformity with gender stereotypes, where: (source: NotAlone.gov)

- submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or education; and/or
- submission to, or rejection of, such conduct by an individual is used as a basis for academic or employment decisions affecting that individual; and/or
- such conduct has the purpose or effect of substantially interfering with an individual’s academic or professional performance or creating an intimidating, hostile, or offensive employment, educational, or living environment based on gender.

Retaliation: Taking adverse employment or educational action against a person who files claims, complaints or charges under these procedures, or under applicable local, state or federal statute, who is suspected of having filed such claims, complaints or charges, who has assisted or participated in an investigation or resolution of such claims, complaints or charges, or who has protested practices alleged to be violative of the non-discrimination policy of the College, the BHE, or local, state or federal regulation or statute. Retaliation, even in the absence of provable discrimination in the original complaint or charge, constitutes as serious a violation of this Policy as proved discrimination under the original claim, complaint or charge.
Examples of behavior that may constitute retaliation, include, but are not limited to:

- Terminating an employee for expressing an intention to file or for filing a charge of discrimination.
- Refusing to hire an employee due to the employee’s pursuit of a discrimination charge against a former employer.
- Denying a promotion to an employee for complaining to anyone about alleged discrimination or harassment.
- Refusing tenure to a faculty member for filing a complaint of discrimination or harassment pursuant to the Discrimination Complaint Procedures.
- Issuing an unjustified negative evaluation to an employee for testifying in a legal proceeding concerning a complaint of discrimination, harassment or retaliation.
- Assigning a student an unearned, poor grade for requesting a reasonable course accommodation based on religion.
- Assigning a student an unearned, failing grade for cooperating with an internal investigation of alleged discriminatory practices or a complaint of discrimination or harassment.
- Refusing to admit a student for requesting a reasonable accommodation based on disability in the admission process.
- Refusing to hire a job applicant for requesting a reasonable accommodation based on disability in the application process.

Members of the academic community should not assume that any of the forms of speech described above are protected by the principles of academic freedom or the First Amendment to the United States Constitution.

**Sexual Harassment:** Sexual advances, requests for sexual favors, and verbal or physical conduct of a sexual nature when:

- submission to or rejection of such advances, requests or conduct is made either explicitly or implicitly a term or condition of employment or as a basis for employment or academic decisions; or
- such advances, requests or conduct have the purpose or effect of unreasonably interfering with an individual's academic or work performance by creating an intimidating, hostile, humiliating or sexually offensive learning or working environment.

Under these definitions, direct or implied requests by a supervisor or instructor for sexual favors in exchange for actual or promised job or academic benefits constitute sexual harassment. The legal definition of sexual harassment is broad and in addition to the above examples, other sexually oriented conduct, whether it is intended or not, that is unwelcome and has the effect of creating a work or educational environment that is hostile, offensive, intimidating, or humiliating to another may also constitute sexual harassment.

While it is not possible to list all those additional circumstances that may constitute sexual harassment, the following are some examples of conduct which if unwelcome, may constitute sexual harassment depending upon the totality of the circumstances, including the severity of the conduct and/or its pervasiveness:

- Unwelcome sexual advances - whether they involve physical touching or not.
- Repeated, unsolicited propositions for dates and/or sexual intercourse.
- Sexual epithets, jokes, written or oral references to sexual conduct, gossip regarding one's sex life; comment on an individual's body, comment about an individual's sexual activity, deficiencies, or prowess.
- Displaying sexually suggestive objects, pictures, cartoons.
- Unwelcome leering, whistling, brushing against the body, sexual gestures, suggestive or insulting comments.
- Verbal harassment or abuse on the basis of sex.
- Inquiries into another person’s sexual activities, practices or experiences.
- Discussion of one's own sexual activities, practices or experiences.
Sexual Violence: Sexual violence refers to physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent (e.g., due to the person’s age or use of drugs or alcohol, or because an intellectual or other disability prevents the person from having the capacity to give consent). A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, sexual abuse, and sexual coercion. Sexual violence can be perpetrated by employees, students, or third parties. All such acts of sexual violence are forms of sex discrimination and are prohibited by Title IX.

Sexual Violence under this Policy includes, but is not limited to:

- **Rape** - Defined by the Federal Bureau of Investigation as follows: The penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the consent of the victim.
- **Sexual Assault** - Actual or attempted sexual contact with another person without that person’s consent. Sexual assault includes, but is not limited to:
  - **Fondling** - The touching of the private body parts of another person for the purpose of sexual gratification, without the consent of the victim, including instances where the victim is incapable of giving consent because of his/her age or because of his/her temporary or permanent mental incapacity;
  - **Incest** - Sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law; and
  - **Statutory Rape** - Sexual intercourse with a person who is under the statutory age of consent.
- **Sexual Exploitation** - Occurs when a person takes sexual advantage of another person for the benefit of anyone other than that person without that person’s consent. Examples of behavior that could rise to the level of sexual exploitation include:
  - Prostituting another person;
  - Recording images (e.g., video, photograph) or audio of another person’s sexual activity, intimate body parts, or nakedness without that person’s consent;
  - Distributing images (e.g., video, photograph) or audio of another person’s sexual activity, intimate body parts, or nakedness, if the individual distributing the images or audio knows or should have known that the person depicted in the images or audio did not consent to such disclosure and objects to such disclosure; and
  - Viewing another person’s sexual activity, intimate body parts, or nakedness in a place where that person would have a reasonable expectation of privacy, without that person’s consent, and for the purpose of arousing or gratifying sexual desire.
- **Aiding in the Commission of Sexual Violence** - The aiding or assisting in the commission of an act(s) of sexual violence is prohibited.
- **Dating Violence** - Violence committed by a person: (a) who is or has been in a social relationship of a romantic or intimate nature with the victim; and (b) where the existence of such a relationship shall be determined based on a consideration of the following factors: (i) the length of the relationship; (ii) the type of relationship; and (iii) the frequency of interaction between the persons involved in the relationship. For the purposes of this definition, dating violence includes, but is not limited to, sexual or physical abuse or the threat of such abuse. Dating violence does not include acts covered under the definition of domestic violence.
- **Domestic Violence** - A felony or misdemeanor crime of violence including, but not limited to, attempting to cause or causing physical harm; placing another in fear of imminent serious physical harm; or causing another to engage involuntarily in sexual relations by force, threat or duress, which is committed by (a) a current or former spouse or intimate partner of the victim; (b) a person with whom the victim shares a child in common; (c) a person who is cohabitating with, or has cohabitated with, the victim as a spouse or intimate partner; (d) a person similarly situated to a spouse of the victim under the domestic or family violence laws of the jurisdiction in which the crime of violence occurred, or (e) any other person against an adult or youth victim who is protected from that person’s acts under the domestic or family violence laws of the jurisdiction in which the crime of violence occurred.
- **Stalking** - Engaging in a course of conduct directed at a specific person that would cause a reasonable person to: fear for the person’s safety or the safety of others; or suffer substantial emotional distress. For the purposes of this definition, “course of conduct” means two or more acts, including, but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person’s property. For the purposes of this definition, “substantial emotional distress” means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.
**PROTECTED CLASS(ES)/CLASSIFICATION(S):** Characteristics or groups of persons protected from discrimination by law and under this Policy, including:

- **Age** - Persons 40 years of age or older.
- **Color** - Variations in skin tone among persons of the same race.
- **Disability** - A person with a disability is one who has a physical or mental impairment that substantially limits one or more major life activities, has a record of such impairment, or is regarded as having such impairment. Examples include, but are not limited to, the following: Acquired Immune Deficiency Syndrome (AIDS), Alcoholism; Asthma; Blindness or other visual impairments; Cancer; Cerebral palsy; Depression; Diabetes, Epilepsy; Hearing or speech impairments; Heart Disease; Migraine Headaches; Multiple sclerosis; Muscular dystrophy; Orthopedic impairments; Paralysis; Thyroid gland disorders; Tuberculosis; loss of body parts.
- **Ethnicity** - See National Origin.
- **Gender** - A person’s sex, either male or female.
- **Gender Identity** - Gender identity is a term that covers a multitude of sexual identities including, but not limited to, transgender individuals, who are persons whose gender identity or gender presentation falls outside of stereotypical gender norms.
- **Genetic Information** - Any written, recorded individually identifiable result of a genetic test or explanation of such a result or family history pertaining to the presence, absence, variation, alteration, or modification of a human gene or genes.
- **National Origin** - A “national origin group” or “ethnic group” is a group sharing a common language, culture, ancestry, and/or other similar social characteristics.
- **Persons of Color** - Members of the following racial classifications: Black, American Indian/Native Alaskan, Asian/Pacific Islander, and Hispanic/Latino.
- **Race** - Discrimination laws do not contain a definition of “race,” but are interpreted to prohibit discrimination on the basis of ancestry or physical or cultural characteristics associated with a certain race, such as skin color, hair texture or styles, or certain facial features, and on the basis of stereotypes and assumptions about abilities, traits, or the performance of individuals of certain racial groups. All individuals, including persons of more than one race and the following racial classifications, are protected from discrimination:
  - Black: All persons having origins in any of the Black racial groups of Africa.
  - White (not of Hispanic origin): Persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.
  - Hispanic/Latino: All persons of Mexican, Puerto Rican, Cuban, Central, Latin or South American or other Spanish culture or origin, regardless of race.
  - Cape Verdean: All persons having origins in the Cape Verde Islands.
  - Asian or Pacific Islander: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands, including, for example, the areas of China, India, Japan, Korea, the Philippine Islands and Samoa.
  - American Indian or Alaskan Native: All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
- **Religion** - “Religion” and “creed” have the same or equivalent meaning: all religious and spiritual observances, practices, and sincerely held beliefs.
- **Sexual Orientation** - Actual or perceived heterosexuality, homosexuality or bisexuality, either by orientation or by practice.
- **Veteran** - Any person who is a member of, applies to perform, or has an obligation to perform, service in a uniformed military service of the United States, including the National Guard.

If at any time subsequent to the implementation of this Policy additional protected classifications are established under applicable law, individuals in those classifications shall be protected against discrimination under this Policy.
**RESPONDENT OR RESPONDING PARTY:** The person against whom a complaint is directed.

**RESPONSIBLE EMPLOYEES:** Allegations involving Title IX offenses, including sex discrimination, sexual harassment, sexual violence, stalking, domestic and dating violence, shall be reported by all “Responsible Employees” to the Title IX coordinator or official designee as soon as the employee becomes aware of it. A Responsible Employee includes any College employee: who has the authority to take action to redress Title IX offenses; who has been given the duty of reporting Title IX offenses to the Title IX Coordinator or other appropriate school designee; or whom a student could reasonably believe has this authority or duty. Responsible Employees shall include, but are not be limited to, College trustees, administrators, department chairs, program coordinators, campus police, club/activity advisors, coaches, managers or supervisors.

**TIME:** The number of days indicated at each level shall be considered as a maximum. All reasonable efforts shall be made to expedite the process, but the President or his/her designee may extend the time limits in extenuating circumstances with notice to both parties in writing, or by mutual written agreement between the Complainant and the Responding Party.

**TITLE IX COORDINATOR:** A College employee assigned the responsibility for maintaining the College’s compliance with Title IX. The Title IX Coordinator is responsible for administering this Policy and its Complaint Procedure concerning all Title IX Offenses. The Title IX Coordinator may also serve as the College’s Affirmative Action Officer. If these positions are held by different individuals, the AAO and the Title IX Coordinator may collaborate on the enforcement of any aspect of this Policy. The Title IX Coordinator should not have other job responsibilities that may create a conflict of interest. For example, serving as the Title IX Coordinator and a disciplinary hearing board member or general counsel may create a conflict of interest. There may also be a Deputy Title IX Coordinator designated to assist the Title IX Coordinator in the performance of his/her duties. The College’s Title IX Coordinator is Peter Sennett, Vice President of Human Resources & Payroll and Affirmative Action Officer and can be contacted at 978-630-9160.

**TITLE IX OFFENSES:** Title IX Offenses include, but are not limited to: sex discrimination, sexual and gender harassment and sexual violence. These offenses shall be addressed by the Title IX Coordinator pursuant to this Policy’s Complaint Procedure.

**VICTIM:** A person who reports being subject to an alleged act of sexual violence.

**D. Specific Policies**

**I. SUPPORT OF AND COMMITMENT TO DIVERSITY**

The Community Colleges have historically been a major contributing element to the emergence of our nation as one of the most technologically and economically advanced societies of the world. The important role that the Community Colleges can play is profoundly dependent upon the extent to which they may draw from the full collective of intellectual resources within each College’s community of scholars, students, and administrators. Any condition or force that impedes the fullest utilization of the human and intellectual resources available represents a force of destructive consequence for the development of our Commonwealth, and ultimately, our nation.

Community College students, faculty, staff and visitors must be free from conduct that has the purpose or effect of interfering with an individual’s academic or professional performance and creating an intimidating, hostile or demeaning educational or employment environment. Therefore, the Community Colleges establish a policy of unequivocal condemnation of all forms of ethnic, religious, cultural, or racial intolerance within the fifteen College communities.

This policy condemns all conditions and all actions or omissions, including all acts of verbal harassment or abuse, which deny or have the effect of denying to an individual his/her rights to equality, dignity and security in violation of his/her rights guaranteed under the law. The policy reaffirms the doctrine of civility, appreciation for pluralism and the preeminence of individual human dignity as preconditions to the achievement of an academic community that recognizes and utilizes the resources of all persons while recognizing and reaffirming the tenets of academic freedom as stated in applicable collective bargaining agreements. The Community Colleges recognize their obligation to protect the rights of free inquiry and expression, and nothing herein shall be construed or applied so as to abridge the exercise of rights under the Constitution of the United States and other federal and state laws.
The Community Colleges will vigorously strive to achieve diversity sufficiently reflective of our society. However, diversity alone will not suffice. There must be a unity and cohesion in the diversity that we seek to achieve, thereby creating an environment of pluralism.

The Community Colleges bear a responsibility by edict and an obligation by social morality to promote understanding and acceptance of ethnic, cultural, religious and racial diversity as we strive to create an atmosphere of dignity for all individuals and groups within our system of public higher education. The President or his/her designee will take reasonable measures to prevent and discourage harassment and will act positively to investigate alleged harassment and to affect a remedy or resolution when an allegation is determined to be valid.

II. POLICY AGAINST PROHIBITED CONDUCT

a. Introduction

The mission of the Community Colleges is to educate, train and prepare our students to live and work in our increasingly global and diverse workforce. It is our commitment to take all possible steps to provide an inclusive and diverse learning, living, and work environment that values diversity and cultural tolerance and looks with disfavor on intolerance and bigotry. Any condition or force that impedes the fullest utilization of the human and intellectual resources available represents a force of destructive consequences for the development of our Commonwealth and ultimately, our nation.

b. Definitions

Prohibited Conduct includes: Discrimination, Discriminatory Harassment, Gender-Based Harassment, Sexual Harassment, Sexual Violence and Retaliation. These terms and all Protected Class(s)/Classification(s) are defined under the “Definitions” section of this Policy.

c. Prohibited Conduct

The Policy prohibits all conditions and all actions or omissions, which deny or have the effect of denying to any person their rights to equity and security on the basis of their membership in or association with a member(s) of any protected class. This policy reaffirms the values of civility, appreciation for racial/ethnic/cultural/religious pluralism and preeminence of individual human dignity as preconditions to the achievement of an academic community, which recognizes and utilizes the resources of all people.

In order to promote an atmosphere in which diversity is valued and the worth of individuals is recognized, the Colleges will distribute policy statements and conduct educational programs to combat all Prohibited Conduct.

The prohibition on Prohibited Conduct contained in this Policy shall apply to and be enforced against all members of the College community, including, but not limited to, faculty, librarians, administrators, staff, students, vendors, contractors and all others having dealings with the institution.

d. Conduct That is Not Prohibited

The Community Colleges are committed to protecting, maintaining and encouraging both freedom of expression and full academic freedom of inquiry, teaching, service, and research. Nothing in this policy shall be construed to penalize a member of the College community for expressing an opinion, theory, or idea in the process of responsible teaching and learning. Accordingly, any form of speech or conduct that is protected by the principles of academic freedom or the First Amendment to the United States Constitution is not subject to this policy.

e. Complaint Procedures

The Community Colleges have established a specific internal Complaint Procedure to help resolve claims and complaints of violations of this Policy on their campuses (see Section L). Any applicant for employment or admission, any student or employee, and any other member of the College community who believes that he or she has been subjected to Prohibited Conduct may initiate a complaint as outlined in the Policy’s Complaint Procedures. Further advice or information may be obtained by contacting the Affirmative Action Officer or Title IX Coordinator.
f. Duty to Cooperate

Every faculty member, librarian, administrator, staff member and College employee has a duty to cooperate fully and unconditionally in an investigation conducted pursuant to this Policy’s Complaint Procedure, subject to the provisions of any relevant collective bargaining agreements.

This duty includes, among other things, speaking with the Affirmative Action Officer, Title IX Coordinator or other authorized personnel or investigator and voluntarily providing all information and documentation which relates to the claim being investigated. The failure and/or refusal of any employee to cooperate in an investigation may result in disciplinary action up to and including termination.

g. Duty to Report

- General Responsibility to Report Prohibited Conduct

No member of the College community who receives a complaint of Prohibited Conduct can ignore it; he or she should give to the person making the complaint as much assistance in bringing it to the attention of the Affirmative Action Officer or Title IX Coordinator as is reasonably appropriate given his or her position at the College and relationship with the person making the complaint. Therefore, all students, faculty, staff, and administrators are strongly encouraged to report to the Affirmative Action Officer or the Title IX Coordinator any conduct of which they have direct knowledge and which they in good faith believe constitutes a violation of this Policy.

- Reporting of Title IX Offenses by Responsible Employees

Allegations involving Title IX Offenses shall be reported by all “Responsible Employees” to the Title IX coordinator or official designee as soon as the employee becomes aware of it. A Responsible Employee includes any College employee: who has the authority to take action to redress Title IX Offenses; who has been given the duty of reporting Title IX Offenses to the Title IX Coordinator or other appropriate school designee; or whom a student could reasonably believe has this authority or duty. Responsible Employees shall include, but are not be limited to, College trustees, administrators, department chairs, program coordinators, campus police, club/activity advisors, coaches, managers or supervisors.

- Mandatory Reporting of Abuse Under State Law

Children (a person under the age of 18) may be students at the College, or may be engaged in activities sponsored by the College or by third-parties utilizing College facilities. In such instances, where an employee has reasonable cause to believe that a child is suffering physical or emotional injury, resulting from among other causes, sexual abuse, the employee and the College may be obligated to comply with the mandatory reporting requirements established at M.G.L. Chapter 119, Section 51A-E. In such cases, the employee is directed to immediately report the matter to the College’s Affirmative Action and/or Title IX Coordinator, who, in consultation with other officials, shall contact the Commonwealth’s Department of Children and Families and/or law enforcement. An employee may also contact local law enforcement authorities or the Department of Children and Families directly in cases of suspected abuse or neglect. State law also maintains mandatory reporting requirements for certain occupations where elderly and disabled abuse or neglect is suspected. For more information on these reporting requirements please contact the College’s Affirmative Action Officer.

Any member of the College community who has a question about his or her responsibilities under this Policy should contact the Affirmative Action Officer or Title IX Coordinator.
III. POLICY AGAINST SEXUAL HARASSMENT

a. Introduction

It is the goal of the Community Colleges to promote an educational environment and workplace that is free of sexual harassment. Sexual harassment of students or employees occurring in the classroom or the workplace is unlawful and will not be tolerated by the Community College. Further, any retaliation against an individual who has complained about sexual harassment or retaliation against individuals for cooperating with an investigation of a sexual harassment complaint is similarly unlawful and will not be tolerated. To achieve our goal of providing a workplace free from sexual harassment, the conduct that is described in this policy will not be tolerated and we have provided a procedure by which inappropriate conduct will be dealt with, if encountered by students or employees.

Because the Community Colleges take allegations of sexual harassment seriously, we will respond promptly to complaints of sexual harassment and where it is determined that inappropriate conduct has occurred, we will act promptly to eliminate the conduct and impose such corrective measures, including disciplinary action where appropriate and consistent with applicable collective bargaining agreements.

b. Definition of Sexual Harassment

Sexual Harassment is defined under the “Definitions” section of this Policy.

The legal definition of sexual harassment is broad and applies to any individual of either gender who participates in the college community, including a student, faculty member, administrator or any other person having dealings with the college. In addition, other sexually oriented conduct, whether it is intended or not, that is unwelcome and has the effect of creating a hostile, offensive, intimidating, or humiliating workplace or academic environment to male or female workers or students may also constitute sexual harassment.

All employees and students should take special note that, as stated above, retaliation against an individual who has complained about sexual harassment, or retaliation against individuals who have cooperated with an investigation of sexual harassment is unlawful and will not be tolerated by the Community Colleges.

c. Complaints of Sexual Harassment

If any member of the College Community believes that he/she has been subjected to sexual harassment, he/she has a right to file a complaint under this policy, either in writing or orally.

All complaints of sexual harassment shall proceed under this Policy’s Complaint Procedure. To file a complaint a person may do so by contacting the College’s Title IX Coordinator, or designee. A report of an allegation of sexual harassment may also be presented to other “Responsible Employees” at the College. These persons are also available to discuss any concerns a person may have and to provide information about the Policy on Sexual Harassment and the complaint process.

d. Sexual Harassment Investigation

If any student or employee believes that he or she has been subjected to sexual harassment, the student or employee has the right to file an Affirmative Action Discrimination Complaint Form (see Appendix A) with the College. For more information or assistance with filing a complaint, please contact the College’s Affirmative Action Officer or Title IX Coordinator. If the Affirmative Action Officer or the Title IX Coordinator is the subject of a complaint, the President shall designate another College official to administer the Complaint Procedures.

All complaints will be investigated in such a way as to maintain confidentiality to the extent practicable under the circumstances. If it is determined that a violation of this Policy has occurred, the College will act promptly to eliminate the harassing conduct, and take disciplinary action where warranted. All disciplinary action taken shall be consistent with any applicable collective bargaining agreement. The Duty to Cooperate, Duty to Report, and the obligation to avoid making False Charges, as discussed previously in this Policy, shall be fully applicable under this section.

A complaint of sexual harassment will be promptly investigated in a fair and expeditious manner. The investigation will be conducted in such a way as to maintain confidentiality to the extent practicable under the circumstances. Our investigation will be conducted in accordance with this Policy’s Complaint Procedure and will include a private interview with the person filing the complaint and with witnesses. The person alleged to have committed sexual harassment will also be interviewed. Once the investigation is completed, the College will, to the extent appropriate, inform the parties of the results of that investigation.
If it is determined that a violation of this policy has occurred, the College will act promptly to eliminate the offending conduct, and where it is appropriate also impose disciplinary action.

e. Disciplinary Action

Discipline for violating this Policy may include, but is not limited to, mandatory counseling or training, verbal or written warnings, suspension, termination from employment, or expulsion from the College.

f. Consensual Relationships

• Faculty/Administrator/Staff Member Relationships with Students

A romantic and/or sexual relationship, consensual or otherwise, between a faculty member, administrator or staff member and a student is looked upon with disfavor and is strongly discouraged. No faculty member shall have a romantic and/or sexual relationship, consensual or otherwise, with a student who is being taught or advised by the faculty member or whose academic work is being supervised or evaluated, directly or indirectly, by the faculty member. No administrator or staff member shall have a romantic and/or sexual relationship, consensual or otherwise, with a student who the administrator or staff member supervises, evaluates, advises, or provides other professional advice or services as part of a College program or activity.

• Relationships Between Supervisors, Subordinates or Co-Workers

A consenting romantic and/or sexual relationship between a supervisor and subordinate or co-workers may interfere with or impair the performance of professional duties and responsibilities and/or create an appearance of bias or favoritism. Further, such relationships could implicate state ethics laws and/or result in claims of sexual harassment, discrimination or retaliation. Therefore, such workplace relationships are strongly discouraged.

g. State and Federal Remedies

In addition to the above, if you believe you have been subjected to sexual harassment, you may file a formal complaint with the governmental agencies set forth below. Filing a complaint under this Policy does not prohibit you from filing a complaint with these agencies. Each of the agencies has a short time period for filing a claim (EEOC - 300 days; MCAD - 300 days).

United States Equal Employment Opportunity Commission ("EEOC")
One Congress Street
10th Floor Boston, MA 02114
617-565-3200

The Office For Civil Rights ("OCR")
Department of Education
John W. McCormack Post
Office and Courthouse
Room 222
Boston, MA 02109
617-223-9662

Massachusetts Commission Against Discrimination ("MCAD")
Boston Office: Worcester Office:
One Ashburton Place
Worcester City Hall
Rm. 601
484 Main St., Rm. 320
Boston, MA 02108
Worcester, MA 01608
617-994-6000
508-799-8010

Springfield Office: New Bedford Office:
424 Dwight Street, Rm 220
800 Purchase St., Rm 501
Springfield, MA 01103
New Bedford, MA 02740
413-739-2145
508-990-2390
IV. POLICY AGAINST SEXUAL VIOLENCE

a. Introduction

Sexual violence is prohibited under state law and the College’s Policy on Affirmative Action. Sexual violence is prohibited pursuant to Title IX of the Educational Amendment Act of 1972, which states: No person in the United States, shall on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal assistance.

All reported or suspected cases of sexual violence shall be reported to the College’s Title IX Coordinator. Please refer to the Complaint Procedures for specific complaint procedures and guidelines (see Section L).

The College prohibits retaliation against any person who presents a formal or informal complaint of sexual violence or who testifies or offers evidence connected with a complaint. Retaliation is a violation of this policy whether or not the underlying claim of sexual violence is confirmed.

b. Sexual Violence Defined

Sexual violence is defined under the “Definitions” section of this Policy and includes rape, acquaintance rape, sexual assault, stalking, domestic and dating violence.

c. Reporting Complaints of Sexual Violence

A victim of sexual violence has the right to file (or not file) an Affirmative Action Discrimination Complaint Form with the College. The process for filing a complaint is outlined under the Policy on Affirmative Action’s Complaint Procedure. For more information or assistance with filing a complaint, please contact the College’s Title IX Coordinator. If the Title IX Coordinator is the subject of a complaint, the President shall designate another College official to administer the Complaint Procedures. A victim may also choose to file a criminal complaint, in which case the Title IX Coordinator and/or Campus Police can assist the victim with that process. Reporting the incident to the Title IX Coordinator or Campus Police does not obligate the victim to file criminal charges.

d. College’s Investigation

The College is obligated to investigate all allegations of sexual violence, even if the alleged victim chooses not to file a formal complaint and/or participate in the investigation. Additionally, a complaint filed in another forum, including a criminal or civil complaint, shall not delay the College’s investigation of a complaint of sexual violence. The College shall promptly and thoroughly investigate all such allegations in accordance with the Policy on Affirmative Action’s Complaint Procedure and shall provide the victim with periodic updates on the status of the investigation. A person found to have committed an act of sexual violence shall be subject to disciplinary action ranging from mandatory counseling and/or training, verbal or written warnings, suspension, expulsion from the College or termination from employment, as well as criminal prosecution.

e. Victim Identification

Personal identifiable information about a victim will be treated as confidential and only shared with persons with a specific need to know and/or who are investigating and/or adjudicating the complaint, delivering resources or support services to the victim or as public safety requires. The College does not publish the names or other identifiable information of victims in the campus police department’s Daily Crime Log, in any Timely Warnings issued or online. In accordance with the Family Educational Rights and Privacy Act, a victim may request that no directory information maintained by the College be released absent his/her prior, written consent.
f. Interim Protective Measures

Title IX requires the College to take reasonable steps to ensure equal access to its education programs and activities and protect individuals from Prohibited Conduct, including taking interim protective measures before the final outcome of an investigation. The College shall take these steps promptly once it has notice of an allegation of Prohibited Conduct, including sexual violence. Examples of interim protective measures include, but are not limited to, the following:

- access to counseling services and assistance in scheduling an appointment, on or off campus;
- imposition of an interim suspension or on-campus “no-contact” order;
- rescheduling of exams and assignments;
- providing alternative course completion options;
- changing class schedules, including withdrawing from a course without penalty;
- changing work schedules or job assignments;
- limiting access to certain College facilities or activities pending resolution of the matter;
- voluntary leave of absence;
- providing an escort to ensure safe movement between classes and activities; and/or
- providing academic support services, such as tutoring.

The specific interim measures implemented and the process for implementing those measures will vary depending on the facts of each case. The College will consider a number of factors in determining what interim measures to take, including, for example, the specific needs expressed by the victim; the severity or pervasiveness of the allegations; any continuing effects on the victim; whether the victim and respondent share the same classes, dining hall schedule, transportation, or job location; and whether other judicial measures have been taken to protect the victim (e.g., civil protection orders).

In general, when taking interim protective measures, the College shall minimize the burden on the victim. To the extent permitted by law, the victim shall be notified of any interim measures taken by the College concerning the respondent. Even under those circumstances where a victim does not wish to pursue a complaint and requests confidentiality, the College must take immediate action to protect the victim while keeping her or his identity confidential.

g. Amnesty

Students may be hesitant to report sexual violence out of concern that they, or witnesses, might be charged with violations of the College’s drug/alcohol policies. While the College does not condone such behavior, it places a priority on addressing allegations of sexual violence. Accordingly, the College may elect not to pursue discipline against a student who, in good faith, reports, witnesses or possesses personal knowledge of an incident of sexual violence.

h. Protections for Victims of Sexual Violence

A person subjected to sexual violence shall:

- Be provided with a copy of the College’s Sexual Violence – Victim’s Rights and Information Advisory, which shall include information concerning counseling, health, and mental health services, victim advocacy and support, law enforcement assistance, and other services available on and off campus;
- Have the right to pursue, or not pursue, assistance from campus administration officials or campus law enforcement;
- Not be discouraged by College officials from reporting an incident to both on-campus and off-campus authorities;
- Be provided assistance in contacting local law enforcement if requested and have the full and prompt assistance and cooperation of campus personnel should a civil and/or criminal complaint be pursued;
- Be free from any suggestion that they somehow contributed to or had a shared responsibility in the violent act;
- Receive the same level of support at any proceeding before College officials as is permitted to the accused party, including the presence of a personal advisor during any disciplinary proceeding and the right to be notified in a timely manner of the outcome of such proceedings and any appeal right available;
- Receive full and prompt cooperation from College personnel in obtaining and securing evidence (including medical evidence) necessary for any potential criminal proceedings;
• Have access to existing College counseling and medical professionals, victim support services, and to obtain referrals to off-campus counseling and support services if desired;

• Be permitted to attend classes, work and participate in College activities free from unwanted contact or proximity to the respondent insofar as the College is permitted and able;

• Be permitted to request changes to an academic schedule if such changes are requested by the alleged victim and are reasonably available; and

• Be informed of any no-contact or no-trespass orders issued to the respondent by the College and the College’s commitment to honor any court-issued restraining or protective orders, to the extent permitted by law.

i. Recommended Procedures for a Victim of Sexual Violence

For a person subjected to an act of sexual violence, there can be time-sensitive decisions to make about sexually transmitted infections, pregnancy, and collecting physical evidence in the event of prosecution. Individuals who have been victims of sexual violence are advised as follows:

• **Protect Yourself and Get Medical Attention** – A victim should be advised to go to a safe place as soon as possible and seek medical attention immediately. Injuries and exposure to disease may not be immediately apparent. A medical examination can provide necessary treatment and collect important evidence. It is recommended that a physical exam be conducted within 72 hours of the violence. Submitting to a physical exam does not mean that a victim is required to press charges. This action merely preserves the option to do so. Designated College personnel can assist in providing transportation to the hospital.

• **Preserve Evidence** - It is important to preserve all physical evidence following an act of sexual violence. Physical evidence may be necessary in the event criminal prosecution is pursued. If possible, a victim should be advised not to wash, eat, drink, douche, clean, use the bathroom, or change clothes. If clothes are changed, all clothes that were worn at the time of the incident should not be cleaned and should be placed into an unused or a clean paper bag.

• **Health and Support Services** - Various health and support services are available on and off campus for students and employees who have experienced sexual violence. For information about such services, including counseling, please contact the Affirmative Action and/or Title IX Coordinator.

J. Rape Crisis Center Contact Information

The following is a list of Rape Crisis Centers in Massachusetts. As the following contact information may be subject to change, current contact information on rape crisis centers in Massachusetts can be found at the Commonwealth’s Executive Office of Health and Human Services’ website under “Consumer” information at mass.gov/EOHHS/drivp/violence/rape-crisis-centers.html.

**Greater Boston Area**

Boston Area Rape Crisis Center, Cambridge, 617-492-7273 Hotline, 617-492-6434 TTY

**Northeastern Massachusetts**

North Shore Rape Crisis Center, Beverly, 800-922-8772 Hotline, 978-921-8729 TTY

Rape Crisis Services of Greater Lowell, 800-542-5212 Hotline, 978-452-8723 TTY

YWCA of Greater Lawrence, 877-509-9922 SA Hotline, 978-686-8840 TTY

**Central Massachusetts**

Rape Crisis Center of Central Mass., Worcester, 800-870-5905 Hotline, 508-852-7600 TTY

Rape Crisis Center of Central Mass., Fitchburg, 800-870-5905

Wayside Victim Services, Milford, 800-511-5070 Hotline, 508-478-4205 TTY

Voices Against Violence, Framingham, 800-593-1125 Hotline, 508-626-8686 TTY
Southeastern Massachusetts

A Safe Place, Nantucket, 508-228-2111 Hotline, 508-228-0561 TTY

Independence House, Hyannis, 800-439-6507 Hotline, 508-778-6782 TTY

Women Support Services, Vineyard Haven, 508-696-7233

Greater New Bedford Women Center, New Bedford, 888-839-6636 Hotline, 508-996-1177 TTY

New Hope, Attleboro, 800-323-4673 Hotline/TTY

Stanley Street Women Center, Fall River, 508-675-0087 Hotline, 508-673-3328 TTY

Womansplace Crisis Center, Brockton, 508-588-8255 SA Hotline, 508-894-2869 TTY

Western Massachusetts

Elizabeth Freeman Center, Pittsfield, 413-443-0089 Hotline, 413-499-2425 TTY

Everywoman Center, Amherst, 413-545-0800 Hotline, 888-337-0800 TTY

NELCWIT, Greenfield, 413-772-0806 Hotline/TTY

YWCA, Springfield, 800-796-8711

YWCA of Western Mass, Westfield, 800-479-6245 Hotline/TTY

These Rape Crisis Centers offer FREE services to survivors of sexual violence, including:

- 24/7 hotline counseling, information, and referral;
- Will go with survivors to hospitals and/or police stations 24/7;
- Will go with a survivor to court;
- Provide one-to-one counseling and support group counseling; and
- Provide primary prevention education; professional training; outreach.

V. NON-DISCRIMINATION AND ACCOMMODATION FOR PERSONS WITH DISABILITIES

It is illegal to discriminate against an otherwise qualified individual with a disability. The Community Colleges recognize the multitude of barriers that confront persons with disabilities in access to both employment and education. Consistent with state and federal statutes that affirm and protect the equal opportunity rights of persons with disabilities, the Community Colleges adopt a policy of non-discrimination and equal opportunity for otherwise qualified persons with disabilities. Any employee or student who believes he/she has been a victim of discrimination due to a disability may file a complaint pursuant to the Complaint Procedures found at Section L of this Policy.

a. In Employment

The Community Colleges will take constructive measures to ensure equal opportunity in all areas of employment including recruitment, selection, upgrading, opportunities for training and development, rate of compensation, benefits and all other terms and conditions of employment. Further, the Colleges will periodically examine all existing employment policies, practices and facilities to ensure that they do not pose a disparate impact for otherwise qualified persons with disabilities. Where such disparity is found, it will be corrected as quickly and completely as is reasonable under existing circumstances. Accordingly, all College facilities may not be available and accessible at a particular time.

b. In Education

The Colleges will periodically examine all existing admissions, student support and other student life policies, practices and facilities to assure that they do not pose a disparate impact for otherwise qualified disabled students. Where such disparity is found, it will be corrected as quickly and completely as is reasonable under existing circumstances. Accordingly, all College facilities may not be available and accessible at a particular time. The Colleges will adopt a policy of non-discrimination with respect to admissions, access to programs and facilities and services for all otherwise qualified disabled persons.
c. Reasonable Accommodations

A “reasonable accommodation” under state and federal law is defined as “modifications or adjustments to an application process, job, work environment, the way in which work is customarily performed, or a course of study that permit a qualified individual with a disability to perform the essential functions of a position or to enjoy the benefits and privileges of employment or education equally with persons without disabilities.”

Reasonable accommodations in employment may include, but are not limited to:

- making existing facilities used by employees readily accessible to and usable by persons with disabilities;
- job restructuring;
- modification of work schedules;
- providing additional unpaid leave;
- acquiring or modifying equipment or devices; and
- providing qualified readers or interpreters.

The Community Colleges are not required to lower performance standards to make an accommodation and are not obligated to provide personal use items, such as eyeglasses or hearing aids.

Reasonable accommodations in education may include, but are not limited to:

- in-class aids, such as note takers;
- extended time for examination;
- quiet rooms or alternate locations for testing;
- alternatively formatted testing; alternatively formatted textbooks and other course materials; and/or
- access to assistive technology.

Possible course reductions or substitutions on the basis of a disability will be carefully evaluated. Students with disabilities must meet the essential requirements of all academic degree programs.

d. Interactive Process

State and federal laws define the “interactive process” as an ongoing communication between, among other parties, employer and employee, college and student, with a known disability in an effort to provide reasonable accommodation. Both parties must engage in the interactive process and communicate directly with each other in order to formulate and effective accommodation plan. Neither party can delay nor interfere with the process.

e. Undue Hardship and Fundamental Alteration

The Community Colleges are required to make reasonable accommodations to qualified individuals with disabilities unless doing so would impose an undue hardship on the operation of a College’s business or result in a fundamental alteration of a job or academic course or program. Undue hardship means an action that requires significant difficulty or expense when considered in relation to factors such as a College’s size, financial resources, and the nature and structure of its operation. Fundamental alteration is a change that is so significant that it alters the essential nature a job or an academic course or program.

f. Process for Requesting a Reasonable Accommodation

An employee or job applicant seeking a reasonable accommodation for a disability may contact the College’s Office for Human Resources. A student or student applicant seeking a reasonable accommodation for a disability may contact the College’s Disability Services Office. All requests for an accommodation are evaluated on a case-by-case basis. Individuals seeking accommodations should be prepared to submit current medical documentation for review in the accommodation process.
VI. CONTRACTING AND PURCHASING

When selecting contractors, suppliers, and vendors of goods and services, including goods and services secured in connection with construction projects, the Colleges will offer equal opportunity to all qualified persons and entities and will not discriminate on the basis of a protected classification.

The College shall use reasonable efforts to attract and encourage bid proposals from a diverse pool of qualified contractors, subcontractors, vendors and suppliers. The College is strongly encouraged to identify businesses primarily operated by individuals within the protected classifications with the help of the Commonwealth’s Supplier Diversity Office.

When transacting business with contractors, vendors and suppliers, the Community Colleges shall include in all contracts the following statement:

Non-Discrimination in Employment: The Contractor shall not discriminate against any qualified employee or applicant for employment because of race, color, national origin, age, sex, sexual orientation, gender identity, religion, genetic information, pregnancy, marital status or disability. The Contractor agrees to comply with applicable federal and state statutes, rules and regulations prohibiting discrimination in employment, including Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967, Section 504 of the Rehabilitation Act of 1973, the Americans With Disabilities Act of 1990, Massachusetts General Laws, Chapter 151B and all administrative and executive orders, where applicable.

The Colleges reserve the right to disqualify any contractor, person or entity seeking to provide services to a Community College that fails to adhere to the prohibitions against discrimination in employment that are contained in this section.

E. IMPLEMENTATION OF AFFIRMATIVE ACTION POLICY

The implementation of an effective affirmative action policy is ultimately the responsibility of the President of each Community College. The President will direct the Affirmative Action Officer to coordinate the overall development, administration and monitoring of all affirmative action programs, policies, procedures and regulations. The Affirmative Action Officer will report directly to the President, or his/her designee, and will bear responsibility for the preparation and execution of all affirmative action policies and programs.

Consistent with all collective bargaining and non-unit employee agreements, each supervisor will seek to ensure that affirmative action and equal opportunity are integrally tied to all aspects of any recruitment, hiring, training or advancement related decisions to which they are a party. They will be aware of goals and will consult with the Affirmative Action Officer prior to and in the course of such actions.

F. AFFIRMATIVE ACTION OFFICER AND TITLE IX COORDINATOR

See “Definition” Section of this Policy for Affirmative Action Officer and Title IX Coordinator contact information.

• Affirmative Action Officer

The Affirmative Action Officer (“AAO”) shall have the task of infusing affirmative action into all aspects of the College. He/she shall be responsible for the development, administration and evaluation of affirmative action policies, procedures, programs and goals; serve as monitor of local, state and federal laws and regulations relating to affirmative action and equal opportunity and compliance thereof; and administer to all segments of the College # students and employees.

The AAO will analyze the College’s work force composition. The AAO may also analyze specific work areas or divisions within the College to determine if under-utilization of any protected group exists. The development of goals and timetables to correct any identified under-utilization shall be the responsibility of the AAO with input from the appropriate administrative officers. Although the basic responsibility for implementation of the affirmative action/equal opportunity program necessarily rests with the administrative officers of the College, the Affirmative Action Officer is responsible for providing advice and assistance.

The AAO shall be an ex-officio member of the Affirmative Action Committee and shall facilitate this Policy’s Complaint Procedures.

• Title IX Coordinator

The College shall employ a Title IX Coordinator. The Title IX Coordinator may also serve as the College’s AAO. The College’s Title IX Coordinator has primary responsibility for coordinating the College’s efforts to comply with and carry
out its responsibilities under Title IX, which prohibits all Title IX Offenses in all College operations, as well as retaliation for the purpose of interfering with any right or privilege secured by Title IX. The Title IX Coordinator shall be adequately trained to perform her/his duties, including understanding the legal aspects of Title IX, conducting investigations of Title IX Offenses, administering an investigative process that protects the safety of victims and promotes accountability and providing campus-wide training to members of the College community.

Members of the College community should contact the Title IX Coordinator in order to:

- seek information or training about students’ and employees’ rights and courses of action available to resolve complaints that involve Title IX Offenses;
- file a complaint or make a report of a Title IX Offense;
- notify the College of an incident that may raise potential Title IX concerns;
- provide information about available resources; and
- periodically evaluate and review the College’s policies and procedures related to Title IX Offenses.

The Title IX Coordinator’s functions and responsibilities include:

- Coordinate Title IX efforts including the development, implementation, and monitoring of appropriate disclosures, policies, procedures and practices designed to comply with federal and state legislation, regulation, and case law requiring the prompt and equitable resolution of all complaints pursuant to Title IX;
- Provide leadership, direction and supervision for all activities and personnel of the Title IX program including consulting with relevant policy-making bodies and senior personnel for the purpose of advising, clarifying and identifying necessary action to eliminate sex discrimination in all educational programs and activities, to ensure that access to facilities, opportunities, and resources is gender equitable throughout the College;
- Provide ongoing training, consultation, and technical assistance on Title IX for all students including: students’ rights under Title IX, identifying behaviors that constitute Title IX Offenses; how to report Title IX Offenses; reporting options; understanding the College’s Policy Against Sexual Violence and Policy on Affirmative Action’s Complaint Procedure; the potential consequences for violating College policies; the role of alcohol and/or drug use; amnesty; consent; the importance of seeking prompt medical attention; prohibition against retaliation; and Bystander Intervention training;
- Provide ongoing training, consultation, and technical assistance on Title IX for all employees in areas including: how to identify and report Title IX Offenses; the College’s responsibilities to address Title IX Offenses; recognizing warning signals; reporting Title IX Offenses to appropriate College officials; and information regarding confidential reporting options.
- Provide ongoing training, consultation, and technical assistance on Title IX for all Responsible Employees including: understanding their reporting obligations; confidentiality; students’ rights and remedies; and available student services.
- Develop, implement and coordinate campus and/or school-based strategic efforts aimed at the prevention of sexual violence and other forms of sex discrimination;
- Develop and disseminate educational materials, including brochures, posters, and web-based materials that inform members of the College community of Title IX rights, responsibilities and resources both within and external to the College;
- Oversee prompt, effective, and equitable intake, investigation, processing, issuing of findings of fact, and timely resolution of all Title IX Offenses made known to responsible employees and/or reported or filed by students, faculty, employees, third parties, or by members of the broader community;
- Provide appropriate notice of an investigation; determine the extent of an investigation; oversee investigation efforts; ensure provision of initial remedial actions; assure compliance with timelines; deliver appropriate notice of charge, notice of investigation, notice of outcome, duty to warn, and remedies, and provide a repository for and source of institutional record-keeping.
• Provide guidance and assistance to alleged victims of Prohibited Conduct, including referral to support resources, notice of right to file internal grievances, notice of the right to grieve to the US Department of Education Office for Civil Rights, and notice of the right to report incidents to law enforcement;

• Organize and maintain grievance files, disposition reports, and other records regarding Title IX compliance, including annual reports of the number and nature of filed complaints and the disposition of said complaints, data collection, climate assessment, pattern monitoring; and

• Serve as principal contact for government inquiries pursuant to Title IX.

G. DISSEMINATION OF POLICY
The Affirmative Action Policy will be widely distributed and discussed within the College Community. A copy of the Policy will be distributed to every major work area at each College and a copy will be maintained in the Library and the Affirmative Action Office. Copies of the Policy will be made available upon request to any student, employee, applicant for student status or for employment or member of the community. The Policy is available upon request from the College’s Affirmative Action Officer and on the College’s website. Colleges may implement procedures requiring employees to annually confirm their receipt of this Policy.

In accordance with state and federal requirements, the following notice will be included in all vacancy postings and other appropriate college publications, contracts, solicitations for bids, purchase orders, websites and leases:

Mount Wachusett Community College Community College is an affirmative action/equal opportunity employer and does not discriminate on the basis of race, color, national origin, sex, disability, religion, age, veteran status, genetic information, gender identity or sexual orientation in its programs and activities as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, and other applicable statutes and college policies. The College prohibits sexual harassment, including sexual violence. Inquiries or complaints concerning discrimination, harassment, retaliation or sexual violence shall be referred to the College’s Affirmative Action and/or Title IX Coordinator, the Massachusetts Commission Against Discrimination, the Equal Employment Opportunities Commission or the United States Department of Education’s Office for Civil Rights.

H. PLAN OF ACTION
A. PROGRAM PURPOSE AND INTENT
The Community Colleges are committed to a policy of equal opportunity and affirmative action. The purpose of this Policy is to establish programmatic objectives that will provide for the access and advancement of qualified minorities, women, and persons with disabilities with respect to both employment and education. The intent of this Policy is to acknowledge and responsibly alleviate the effects of societal discrimination and its impact on the protected group.

B. SCOPE
Affirmative action and equal opportunity shall be viewed as an integral part of the mission and purpose of each Community College. The Affirmative Action Policy by its very nature shall affect and apply to all aspects of recruitment, employment and education.

The opportunity for education for students in the protected classifications will be an imperative. Affirmative action programs should support not only student admissions to the College but also its programs.

In employment, affirmative action will affect recruitment, terms and conditions of employment, administrative procedures and relevant policies and practices of the College.

C. WORKFORCE AND UTILIZATION ANALYSIS
A procedure for implementation of the Policy will be undertaken and it will include opportunities for maximum communication between the responsible parties, i.e., supervisors, the Affirmative Action Officer and the President. A workforce and utilization analysis shall be conducted annually.

D. UNDER-UTILIZATION
Underutilization exists when the number of individuals in protected classifications in an occupational category is fewer than would reasonably be expected based upon the availability of qualified persons for employment within a specific geographic area. When underutilization is identified for appropriate organizational units and occupational categories, goals and timetables are
established as a means of increasing the employment of qualified individuals in protected classifications at the earliest possible time. This section shall be applied in a manner consistent with the appropriate collective bargaining agreement, if applicable.

E. GOALS
Hiring goals are targets for increasing the employment of qualified individuals in protected classifications in appropriate organizational units and/or occupational categories of the College workforce. Hiring goals are not rigid quotas. They are reasonable estimates of what is attainable and are established separately for individuals in protected classifications.
Program goals include special efforts to remove barriers, to improve awareness or sensitivity, to address problem areas identified within the College Affirmative Action Policy, to bring about conditions that will promote the hiring goals, or to address changes taking place within the institution. General timetables are to be established for the implementation of the goals. The time period shall normally be between two (2) and five (5) years.

F. IDENTIFICATION OF PROBLEM AREAS AND REMEDIAL APPROACHES

At the request of the Commissioner, the President shall submit a report to the Commissioner as referenced in Auditing and Reporting and shall include an analysis of under-utilized areas and possible solutions and may cover such issues as curricular concerns, employment and student recruitment, hiring, retention of employees, resignations, and College activity and program availability. The report will also consider and give an analysis of the established goals and timetables.

G. PROGRAMMATIC & COLLABORATIVE EFFORTS

The Community Colleges have, as a group, committed themselves to a policy of affirmative action/equal opportunity and non-discrimination throughout this Policy. The Colleges realize, however, that the development and implementation of specific programmatic efforts, both individually and collaboratively, will be essential to the establishment of an action-oriented program. Rather than rendering affirmative action policies that merely represent a compilation of policies, procedures and prohibited practices solely designed to avoid discrimination, these action-oriented elements ensure that this Policy becomes a pro-active, aggressive tool as opposed to a passive document.

In an effort to fully establish joint collaborative programs that will enhance the implementation of the Community Colleges' Affirmative Action Policy, the Affirmative Action Officers of the fifteen institutions are encouraged to work collaboratively on the following initiatives.

- **Recruitment Directory**

  A directory of recruitment resources may be developed for each major category of positions (i.e., academic discipline, administrative area, field of focus) listing the various known sources for contact. This directory will list individuals, departments, institutions, organizations, professional associations and their various caucuses that are known to be good sources of candidates from protected classifications. In addition, the directory will also contain a listing of major publications such as newspapers, journals or other periodicals that print job advertisements and have substantial circulation among individuals in protected classifications and other underrepresented persons or groups. Trade or professional journals for each academic discipline and professional area will also be included.

- **Program of Professional Enrichment for Personnel of Affirmative Action Offices**

  The Affirmative Action Officers will meet regularly and jointly participate in workshops, seminars and other kinds of enrichment opportunities that will assist them in the performance of their duties. Insofar as possible, reliance will be placed on the expertise of persons within the public higher education system, local, state and federal agencies, and professional organizations and associations in order to keep costs to a minimum.

- **Educational Seminars**

  The Affirmative Action Officers, collectively or individually, may develop seminars to strengthen the understanding and sensitivity of all employees, and in particular senior administrators and supervising managers, to the importance of their respective roles in fostering a workplace free of discrimination, harassment and retaliation. All members of the College community shall be encouraged to attend such programs.

h. Individual Campus Efforts

Specific programmatic efforts determined by the individual Colleges may take any of several forms: projects, programs, defined strategies, structured activities or other tactical steps that contribute to fulfillment of the Colleges' affirmative action and equal opportunity goals and objectives. Each College may develop specific programs to assist in identifying and overcoming deficiencies, increasing representation of qualified individuals in protected classifications within the work force and the student body and providing increased opportunities for underrepresented groups, both in the area of employment and in the area of the student learning environment. Cross-cultural programming, sensitization of all members of the College communities to the rights and needs of all persons, including individuals in protected classifications will play a major part. The involvement of all segments of the College community in both the planning and the implementation of such programming will be an essential factor in its success.
**I. HIRING GUIDELINES**

Proper hiring guidelines are crucial to the success of attracting and hiring a qualified, diverse workforce. The Human Resources Office shall work in consultation with the Affirmative Action Officer in developing proper hiring guidelines. The hiring process is generally initiated with the development of a recruitment plan, which shall be reviewed by the Affirmative Action Officer before commencing with advertisement. The plan will be reviewed in light of the College’s affirmative action goals and will include the use of applicable mailing lists of contacts and resume file, if any, developed and maintained for affirmative action recruiting. Goals will be reviewed at the time of recruitment.

When practicable, the time permitted between the initial public announcement of an available position and the deadline for submission of applications must allow for adequate selective notification of qualified individuals in protected classifications.

For vacancies for positions that are half-time or greater, the Affirmative Action Officer will consult with the hiring manager to determine an appropriate recruitment time frame which will allow sufficient time to recruit under-utilized persons while simultaneously meeting the organization's need to fill the position as soon as possible.

Deans and Vice Presidents are encouraged to plan ahead and schedule all searches so as to allow sufficient time to conduct effective affirmative action searches.

If the recruitment process fails to yield sufficient numbers of qualified candidates from a designated protected group, consideration may be given to reposting the position. This section shall be applied in a manner consistent with the appropriate collective bargaining agreement, if applicable.

The Affirmative Action Officer shall have access to all applications for the purpose of reviewing and certifying the process and the outcome and for the purpose of collecting data to conduct applicant flow studies, etc. Additionally, the Affirmative Action Officer may make recommendations for interviewing affirmative action candidates.

The hiring process will generally include an interview with a search committee, which may include the position’s direct supervisor and/or other appropriate persons who have responsibility in the work area. The Affirmative Action Officer will review a committee’s recommendation for appointment and sign it to verify compliance with affirmative action procedures. If the Affirmative Action Officer finds that the recruitment and/or selection process does not satisfy affirmative action requirements, he/she should submit his/her reservations to the President.

In regard to hiring/promotions, the College will comply with all applicable collective bargaining provisions when making such decisions.

**J. COLLEGE AFFIRMATIVE ACTION COMMITTEE**

An Affirmative Action Committee shall be established consisting of at least seven (7) members representative of faculty, administrators, non-teaching professionals, classified staff and students. The Committee shall include protected classification representation. The members shall be appointed by the President. The Affirmative Action Officer shall be an ex-officio member of the Committee.

The Committee shall act as a policy advisory body to the President in all matters concerning affirmative action and equal opportunity. Specific responsibilities of the Committee may include, but are not limited to, the following:

a. Advise and assist the President and the Affirmative Action Officer in developing, implementing and evaluating the College's Affirmative Action Program;

b. Recommend changes in the programs or policies;

c. Represent the concerns of all employment areas of the College as these concerns relate to equal opportunity;

d. Be informed about the rules and procedures of the College as well as federal and state laws and regulations governing affirmative action and equal opportunity;

e. Meet as necessary, but not fewer than two (2) times a year; and

f. Help sensitize and educate the College community regarding the affirmative action issues facing higher education and the larger society and to help broaden understanding of diversity in our society as well as to encourage behaviors appropriate to a pluralistic society.
K. AUDITING AND REPORTING

The Affirmative Action Officer shall be primarily responsibility for monitoring compliance and auditing the implementation of the Policy on Affirmative Action, Equal Opportunity and Diversity. The Affirmative Action Officer shall furnish the President with progress reports and shall inform the President of practices or policies that may not be in compliance with the Policy.

The Affirmative Action Officer will annually review the progress being made toward achievement of the College’s affirmative action goals. The review shall include strategies and timetables for achieving its affirmative action goals, availability figures, institutional performance or other circumstances that affect the implementation of this Policy’s goals. In addition, he/she will assure that annual compliance reports required by the Board of Higher Education and other state and federal agencies are completed.

To ensure compliance with this Policy, the Affirmative Action Officer will review and evaluate the applicable policies, programs and activities related to job requirements, performance criteria, personnel benefit plans, students support services, facilities and programmatic access, vendor contract submission and services, media advertising and public relations materials, including all College publications. Recruitment and hiring procedures will be monitored using the methods described in this Policy. All monitoring and analyses will be conducted as necessary to identify problem areas and provide recommendations to remedy them.

The Affirmative Action Officer shall conduct periodic audits of the utilization analysis and goals. The purpose of the audit will be to assess progress toward established goals and to apprise other persons responsible for recruitment of the findings. Continuous monitoring is important to the success of the Policy. The findings, while utilized throughout the year, will be reported formally in the annual report. Problem areas and successes will be reported. Additionally, compliance reports requested by other agencies should be included as an internal audit mechanism.

L. COMPLAINT PROCEDURE

I. General Information

a. Application of Policy

The complaint procedure is intended to provide a mechanism to investigate and where possible resolve complaints of alleged violations of this Policy against employees and students. The procedures outlined below are intended to ensure that the College will conduct an impartial, fair, effective, and efficient investigation of all allegations of violations of this Policy without fear of retaliation. The complaint procedure is available to any employee or student, or applicant for employment or admission, who believes he/she has been subjected to Prohibited Conduct as defined under this Policy. A complaint filed in another forum does not preclude an individual from filing a complaint under this Policy. Further, a complaint filed in another forum, including a criminal or civil complaint, shall not delay an investigation of a complaint filed under this Policy.

b. Confidentiality of Process

The complaint procedure will be conducted as confidentially as reasonably possible to protect the privacy rights of all individuals involved. The College may share information concerning the complaint with parties, witnesses and/or others during any phase of the procedure on a need-to-know basis and shall share information with union representatives as provided for in G.L. c.150E. All individuals with whom information is shared shall be advised of the confidential nature of the information and directed not to discuss the matter with anyone other than a personal advisor, if applicable.

c. Complainant Requests Confidentiality

Where a Complainant requests that no action be taken by the College or requests that her/his identity not be revealed, the College shall take reasonable steps to investigate and respond to the complaint, but shall inform the Complainant that such a request may hamper its ability to fully investigate an alleged violation of this Policy and/or to take appropriate remedial steps, including disciplinary action. Where an allegation of Prohibited Conduct involves the potential of an ongoing threat to the health, safety or security of the College or a potential adverse employment action, the Affirmative Action Officer, or in the case of an alleged Title IX Offense, the Title IX Coordinator, shall inform the Complainant that it cannot ensure confidentiality and disclosure of their name may likely be required.
d. Off Campus Behavior

The College reserves the right to investigate alleged Prohibited Conduct under this Policy occurring off-campus when such conduct adversely affects the College Community, poses a threat of harm to the College Community; interferes with the College’s pursuit of its educational objectives and mission, and/or if a student or employee is charged with a serious violation of state or federal law.

e. Interim Protective Measures

Title IX requires the College to take reasonable steps to ensure equal access to its education programs and activities and protect individuals from Prohibited Conduct, including taking interim protective measures before the final outcome of an investigation. The College shall take these steps promptly once it has notice of an allegation of Prohibited Conduct, including sexual violence. Examples of interim protective measures include, but are not limited to, the following:

- access to counseling services and assistance in scheduling an appointment, on or off campus;
- imposition of an interim suspension or on-campus “no-contact” order;
- rescheduling of exams and assignments;
- providing alternative course completion options;
- changing class schedules, including withdrawing from a course without penalty;
- changing work schedules or job assignments;
- limiting access to certain College facilities or activities pending resolution of the matter;
- voluntary leave of absence;
- providing an escort to ensure safe movement between classes and activities; and/or
- providing academic support services, such as tutoring.

The specific interim measures implemented and the process for implementing those measures will vary depending on the facts of each case. The College will consider a number of factors in determining what interim measures to take, including, for example, the specific needs expressed by the victim; the severity or pervasiveness of the allegations; any continuing effects on the victim; whether the victim and respondent share the same classes, dining hall schedule, transportation, or job location; and whether other judicial measures have been taken to protect the victim (e.g., civil protection orders).

In general, when taking interim protective measures, the College shall minimize the burden on the victim. To the extent permitted by law, the victim shall be notified of any interim measures taken by the College concerning the respondent. Even under those circumstances where a victim does not wish to pursue a complaint and requests confidentiality, the College must take immediate action to protect the victim while keeping her or his identity confidential.

f. Interim Action

The College reserves the right to suspend a student on an interim basis or place an employee on paid administrative leave prior to completing an investigation under this Policy when it reasonably concludes that a student or employee: (a) poses a threat to health or safety; (b) poses a threat to College property or equipment; (c) is disruptive or interferes with the normal operations of the College; or (d) is charged with a serious violation of state or federal law. In such cases, the College shall provide the employee or student of the specific reason(s) for the interim action. During a student’s interim suspension or an employee’s leave, the College reserves the right to prohibit the individual from entering upon the College’s property or participating in any College activities absent written authorization from an appropriate official of the College.
g. Joint Investigation

In some circumstances a Responding Party’s conduct may constitute a potential violation of this Policy and/or other conduct policies applicable to employees or students. In such cases, in order to avoid duplicative investigatory efforts, a joint investigation under this Policy may be conducted by the AAO or, in the case of an alleged Title IX Offense, the Title IX Coordinator, and the administrator charged with enforcing conduct policies. For example, if the Responding Party is a student, the Affirmative Action Officer (or Title IX Coordinator if a Title IX Offense is alleged) and Student Code of Conduct Officer may jointly investigate the complaint. Based on the findings of their joint investigation, the student may be subject to disciplinary action for violations of this Policy and/or the Student Code of Conduct. Where the Responding Party is an employee, a joint investigation may be conducted by the Affirmative Action Officer (or Title IX Coordinator if a Title IX Offense is alleged) and the employee’s supervisor. Based on the findings of their joint investigation, the employee may be subject to disciplinary action for violations of this Policy and/or for inappropriate and unprofessional conduct.

h. Collateral Rights of Employees

Any disciplinary action taken against an employee shall be regarded as an administrative action subject to all terms and conditions of applicable collective bargaining agreement.

i. Anonymous Complaints

Any individual may file an anonymous complaint concerning any Prohibited Conduct referenced under this Policy. An individual may report the incident without disclosing his/her name, identifying the respondent or requesting any action. Depending on the level of information available about the incident or the individuals involved, however, the College’s ability to respond to an anonymous report may be limited. An anonymous complaint may be filed with the Affirmative Action Officer or, in the case of an alleged Title IX Offense, the Title IX Coordinator.

j. Amnesty

Students may be hesitant to report sexual violence out of concern that they, or witnesses, might be charged with violations of the College’s drug/alcohol policies. While the College does not condone such behavior, it places a priority on addressing allegations of sexual violence. Accordingly, the College may elect not to pursue discipline against a student who, in good faith, reports, witnesses or possesses personal knowledge of an incident of sexual violence.

k. False Charges

Filing a false charge under this Policy is a serious offense. If an investigation reveals that a complainant knowingly filed false charges, the College shall take appropriate actions and issue sanctions pursuant to other applicable College policies, including any applicable collective

II. Complaint Procedure

The complaint process is comprised of two procedures - the informal procedure and the formal procedure. In the event a complaint alleges a Title IX Offense, the College’s Title IX Coordinator shall have the responsibility for administering this Policy, including the Complaint Procedure.

a. Informal Procedure

Where appropriate, the parties to a dispute and/or the Affirmative Action Officer may attempt to reach an informal and prompt resolution of the potential complaint. Informal resolution is encouraged and any of the parties involved may request the intervention of the Affirmative Action Officer to assist in resolving the matter informally. An informal resolution is achieved through open dialogue between the parties that allows for the airing of any misunderstandings or disputed issues. The informal procedure shall not be used in an effort to resolve allegations of sexual harassment or sexual violence. Further, at no time shall a Responding Party question or confront a Complainant, or engage a third party to do so, as such conduct may constitute intimidation and/or retaliation, which are strictly prohibited under this Policy.
b. Formal Procedure

The following rules apply throughout all phases of the formal complaint process: (1) all parties to a complaint may have a personal advisor (for union employees this may be a union representative and in cases involving allegations of sexual violence the personal advisor may be an attorney); (2) the role of a personal advisor is limited to providing discrete advice and counsel to the party; (3) the filing of a complaint under this Policy shall not preclude a Complainant from pursuing a complaint in a separate legal forum; (4) a grade dispute based on alleged Prohibited Conduct shall proceed under this Policy and not the Grade Appeal Process contained in the Student Grievance Procedure; and (5) all findings reached under Complaint Procedure must be based on a “preponderance of evidence” (i.e.; more likely than not) standard.

At any point during the formal complaint procedure, either party may request mediation by contacting the Affirmative Action Officer. The purpose of mediation is to resolve the dispute to the satisfaction of both parties. Mediation shall be mutually agreed upon by the parties. Mediation shall not be used in an effort to resolve allegations of sexual harassment or sexual violence. The Affirmative Action Officer, or designee, shall select an impartial mediator, who shall be mutually agreed upon and not unreasonably refused by either party, and inform the parties in writing of the mediation process and schedule. The mediator must have training or experience in mediating matters subject to this complaint process. Where practicable, a mediation session shall be conducted no later than thirty (30) days after agreed to by the parties. The timelines presented under the Complaint Procedure shall be tolled pending the outcome of mediation. If mediation is successful in resolving the complaint, the Affirmative Action Officer shall reduce to writing the terms of the mediated resolution, which shall be signed by the parties. If mediation does not result in a resolution, all mediation discussions shall remain confidential and may not be used or introduced in this process or any other forum.

Step 1 – Investigation

When a Complainant believes that he/she has been subjected to Prohibited Conduct, the Complainant may file a formal written complaint with the Affirmative Action Officer, or in the case of an alleged Title IX Offense, the Title IX Coordinator. For student Complainants, a formal complaint may be filed within thirty (30) days following the end of the instructional period when the Complainant knew or should have known of the grievable act. For employee Complainants, a formal complaint may be filed within thirty (30) days from when the Complainant knew or should have known of the grievable act. The complaint shall contain a statement of all known facts pertaining to the alleged violation and shall be filed preferably on the Affirmative Action Discrimination Complaint Form (see Appendix A). If a student is involved, the Affirmative Action Officer shall notify the Vice President or Senior Dean of Student Services.

During Step 1, the Affirmative Action Officer has the authority to seek to resolve the complaint through an administrative remedy. If the parties accept the administrative remedy proposed, its terms shall be reduced to writing, signed by both parties and the Affirmative Action Officer shall retain the document, with copies to the parties. Thereafter, the matter shall be considered resolved between the parties.

Upon receiving a written complaint, the Affirmative Action Officer will notify the Responding Party in writing, of the complaint (see Appendix B), and provide the Responding Party with a copy thereof. The timeliness of such notification shall be in accordance with the appropriate collective bargaining agreement, if applicable. The Responding Party shall have ten (10) days from receipt of notice to submit to the Affirmative Action Officer a written response to the complaint.

Where practicable, within thirty (30) days from the date the Respondent’s written response is received, or the date it was due if none was submitted, the Affirmative Action Officer shall conduct an investigation and prepare and issue a Report of Preliminary Findings to the parties. The investigation shall include, but is not limited to, an analysis of the allegations and defenses presented, consideration of all relevant documents, including materials presented by the parties, interviews of the parties and other individuals and/or witnesses, and/or reviewing certain documents or materials in the possession of either party that the Affirmative Action Officer has deemed relevant to the complaint. The Affirmative Action Officer’s report shall specify the investigation undertaken and summarize his/her preliminary findings. The report shall be delivered to the parties in hand or by certified mail. If the investigation is not completed within thirty (30) days, status updates shall be provided to the parties every thirty (30) days until it is completed. Any request by a party to extend a deadline established under this procedure shall be presented in writing to the Affirmative Action Officer.
Thereafter, the parties will have ten (10) days from the date of their receipt of the Report of Preliminary Findings to submit Rebuttal Statements to the Affirmative Action Officer. The parties may present no new allegations at that time. Where practicable, within seven (7) days of receiving the parties’ Rebuttal Statements, the Affirmative Action Officer shall review the Rebuttal Statements and prepare and submit a Report of Final Findings and Recommendations to the President’s Designee for consideration.

**Step 2 – Review and Decision by the President’s Designee**

Where practicable, within ten (10) days of receipt of the Affirmative Action Officer’s Report of Final Findings and Recommendations, the President’s Designee shall issue a written decision to the parties. The written decision shall accept, reject or modify the Affirmative Action Officer’s Final Findings and Recommendations. The Designee’s written decision shall be delivered in hand or by certified mail and shall include the Report of Final Findings and Recommendations. If the President is the Responding Party in an Affirmative Action Complaint, then the Chair of the College’s Board of Trustees shall designate a Board member(s) as Designee to administer Step 2 of the Complaint Process.

**Step 3 – Appeal to President**

A party who is not satisfied with the Designee’s written decision may file an appeal with the President within five (5) days of receiving the Designee’s decision. Where practicable, within five (5) days of receiving the appeal, the President shall issue a written decision accepting, rejecting or modifying the Designee’s decision. The President’s decision is final provided that any corrective action and/or discipline imposed are subject to applicable collective bargaining agreements.

If the President is the Responding Party in an Affirmative Action Complaint, then the Chair of the College’s Board of Trustees shall consider the appeal and issue the written decision.

Implemented: December 2014
ANIMALS ON CAMPUS

Animals are not allowed on Mount Wachusett Community College campuses with the exception of service animals. See the Policy on Service Animals for the definition of a service animal and the required process for registering a service animal on campus.

SUICIDE PROTOCOL AND POLICY

The College recognizes that a student’s physical, behavioral, and emotional health is an integral component of a student’s academic success at the College. The purpose of the protocol is to protect the health and well-being of all students by having procedures in place to identify, assess the risk of, intervene in, and respond to suicidal behavior. The policy is activated when the College has actual knowledge that a student is actively engaged in suicidal behavior, has previously engaged in suicidal behavior while enrolled at the College or recently before matriculation, or has stated plans or intentions to complete suicide. A student who engages in any of these behaviors may be required to meet with the Dean of Students before being permitted to resume classes. The Student Suicide Prevention Protocol is administered by the Dean of Student’s Office.

STUDENT SUICIDE PREVENTION PROTOCOL

PURPOSE

The purpose of this protocol is to provide education and guidance to faculty, staff, students, and other members of the College community to help prevent student suicide. All suicidal behavior or threats should be taken seriously and immediately referred in accordance with this protocol. In the case of an emergency, please dial 911 or contact Campus Police immediately at 978-630-9111 (off-campus) or X1111 (on-campus phone).

DEFINITIONS

Suicide: Death from an injury which is self-inflicted and by which the student intended to kill him/herself.

Suicidal Behavior: Any potentially injurious behavior which is self-inflicted and by which a student intends, or gives the appearance of intending, to kill himself or herself.

Suicidal Ideation: Any self-reported thoughts or feelings about engaging in suicidal behavior.

Suicide Plan: A proposed method of self-inflicted injury through which the potential and intentional outcome is death.

Active Suicidal Ideation with Specific Plan and Intent to Act: Thoughts of killing oneself with details of plan fully or partially worked out and student has some intent to carry it out.

Active Suicidal Ideation with Some Intent to Act, without Specific Plan: Active suicidal thoughts of killing oneself and student reports having some intent to act on such thoughts, as opposed to “I have the thoughts but I definitely will not do anything about them.”

Actual Knowledge: The direct and clear awareness of a fact or circumstance, as opposed to constructive (inferred or implied) knowledge. What a person "must have known" as opposed to "should have known."

PROTOCOL

This Protocol shall be followed in the event a College employee has actual knowledge that a student:

1. Is actively engaged in suicidal behavior;
2. Has engaged in suicidal behavior previously while enrolled at the College or recently before matriculation. or
3. Has stated plans or intentions to commit suicide, including active suicidal ideation with specific plan and intent to act or active suicidal ideation with some intent to act, without a specific plan.

Where the College has actual knowledge that a student has engaged in suicidal behavior and is currently hospitalized, these protocols shall be activated (under procedures for Previous Suicidal Behavior) in the event the student seeks to return to the College.

Active Suicidal Behavior

- Any member of the College community who has actual knowledge that a student is actively engaged in suicidal behavior shall immediately contact Campus Police at 978-630-9111 or X1111 (all hours).
- Contact the Dean of Students immediately at 978-630-9855 (college business hours).
• If the Dean of Students if not available, Campus Police will provide proper notification.
• The Dean of Students (or designee) shall attempt to contact the student’s emergency contact of record or another emergency contact identified by the student.
• A student who has engaged in active suicidal behavior shall be required to be assessed by a licensed mental health professional and provide documentation to the Dean of Students office upon return. Documentation will be reviewed by the Dean of Students (or designee) and/or the College’s CARE Team.

Previous Suicidal Behavior

• Any member of the College community who has actual knowledge that a student has engaged in suicidal behavior while enrolled at the College or recently before matriculating shall contact the Dean of Students immediately at 978-630-9855 (college business hours).
• If the Dean of Students if not available, please contact Campus Police 978-630-9111 or X1111 (all hours) who will provide proper notification and response.
• Based on the information received, the Dean of Students (or designee) shall determine whether the protocol should be activated. In doing so the Dean (or designee) may attempt to meet with the student and/or consult with the CARE Team.
• If the protocol is activated, the Dean of Students (or designee) shall attempt to contact the student’s emergency contact of record or another emergency contact identified by the student.
• The Dean of Students (or designee) may further consult with the CARE Team to determine an appropriate medical referral, help identify support strategies, and/or develop a follow-up action plan for the student.
• When it is determined that a student has engaged in suicidal behavior while enrolled at the College or recently before matriculating, the student shall be required to be assessed by a licensed mental health professional and provide documentation to the Dean of Students prior to returning to classes. Documentation will be reviewed by the Dean of Students, or designee, and/or the College’s CARE Team.

Active Suicidal Ideations with Stated Plans or Intentions

• Any member of the College community who has actual knowledge that a student has stated plans or intentions to engage in suicidal behavior shall contact the Dean of Students immediately at 978-630-9855 (college business hours).
• If the Dean of Students if not available, please contact Campus Police 978-630-9111 or X1111 (all hours) who will provide proper notification and response.
• Based on the information received, the Dean of Students (or designee) shall determine whether the protocol should be activated. In doing so the Dean (or designee) may attempt to meet with the student and/or consult with the CARE Team.
• When it is determined that a student has engaged in suicidal behavior while enrolled at the College or recently before matriculating, the student shall be required to be assessed by a licensed mental health professional and provide documentation to the Dean of Students prior to returning to classes. Documentation will be reviewed by the Dean of Students, or designee, and/or the College’s CARE Team.
• The Dean of Students (or designee) may further consult with the CARE Team to determine an appropriate medical referral, help identify support strategies, and/or develop a follow-up action plan for the student.
• When it is determined that a student has stated plans or intentions to engage in suicidal behavior, the student shall be required to be assessed by a licensed mental health professional and provide documentation to the Dean of Students prior to returning to classes. Documentation will be reviewed by the Dean of Students, or designee, and/or the College’s CARE Team.
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The MWCC Foundation, Inc. supports the college’s mission by providing much needed financial support for students and programs. Founded in 1971, the foundation is a private, nonprofit organization and is tax exempt under Section 501(C) (3) of the Internal Revenue Code. As such, donations are tax-deductible. The foundation is independent of the state higher education system, and so is ideally positioned to be more responsive to local needs for scholarship aid and program development. Its board of directors represents a wide spectrum of business and community leaders from the local area.

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RACHEL FRICK CARDELLE
Vice President Of Lifelong Learning and Workforce Development
Ph.D., Pennsylvania State University;
M.A., Johns Hopkins University, School for Advanced International Studies;
B.A., University of Colorado

PAUL HERNANDEZ
Vice President of Academic & Student Affairs
Ph.D., Michigan State University
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Vice President, Finance & Administration
M.B.A. Northeastern University;
B.S., Southeastern Massachusetts University

LEA ANN SCALES
Vice President of External Affairs, Communications, and K-12 Partnerships
M.S., University of Massachusetts;
B.A., Minnesota State University, Mankato

PETER H. SENNETT
Vice President, Human Resources & Payroll
LL.M., George Washington University
J.D. and M.P.A., Syracuse University
B.A., SUNY@Buffalo

JOSEPH N. STISO
Vice President/Planning, Development, and Institutional Research
M.S., Worcester State University;
B.A., Clark University

JASON ZELESKY
Senior Dean of Student Affairs
M.Ed., University of Vermont;
B.A., University of Massachusetts-Dartmouth
FACULTY AND PROFESSIONAL STAFF

(List includes full-time and pro-rated benefited employees)

SUE ALLAIRE
Career Development Counselor
M.S., Fitchburg State University;
B.B.A., St. Bonaventure University

ERIC ALMEIDA
Assistant Professor, Automotive Technology
A.S., Benjamin Franklin Institute of Technology

RAMAKANTH ANANTHOJI
Assistant Professor, Mathematics
Ph.D., University of South Florida;
M.S., Kakatiya University;
B.S., Loyola Academy

CARRIE ARNOLD
Professor, Biology
Ph.D., Boston University School of Medicine;
B.A., Saint Anselm College

KRISTINE CARLSON ASSELIN
Grant Writer, Workforce Development
M.A., University of Connecticut;
B.S., Fitchburg State University

DAWN BABINEAU
Learning Specialist, Disability Services
M.Ed., Plymouth State University;
B.S., Lesley University

JANICE G. BARNEY
Dean, School of Business, Science, Technology and Mathematics
M.A., Bridgewater State College;
B.S., University of Massachusetts

JAMES BIGELOW
Associate Professor, Criminal Justice
M.A., Anna Maria College;
B.A., Holy Cross College

MICHELLE BLAKENEY-COUTURE
Coordinator of Financial Aid
B.S., Becker College;
A.S., Quinsigamond Community College
JEFFREY BOISSEAU  
Theatre Technical Director/Set Designer  
A.S., Mount Wachusett Community College

OTONIEL BOLANOS  
Assistant Professor, ESL  
M.A., New Jersey City University;  
B.A., Valle University

KATHLEEN BOUCHER  
Staff Assistant, Division of Human Resources & Payroll, Affirmative Action Office

STEFANAE BOWEN  
Transfer Counselor, Access & Transition  
M.Ed., Merrimack College;  
B.A., Merrimack College

LISA BREAU  
Payroll Generalist, Division of Human Resources & Payroll, Affirmative Action Office

MICHELLE BRENNAN  
Assistant Director, United Way Youth Venture  
B.A., Assumption College

KRISTI BRUWER  
Career Development Counselor-Leominster Campus  
B.S., Fitchburg State University

ZACHARY BUSCHER  
Assistant Professor, English  
M.F.A., University of Arizona

CYNTHIA CADORET  
Director, Dental Education Programs  
MPH, University of Massachusetts;  
B.S., Worcester State University;  
A.S., Quinsigamond Community College

H A L E Y C A I S S E  
Graphic Design Coordinator, Marketing & Communications  
B.A., Westfield State University

JULIE CAPOZZI  
Associate Professor, Psychology & Sociology  
M.Ed., Boston University;  
B.A., Rhode Island College

CHRISTOPHER CARCERANO  
Academic Counselor, Access & Transition  
M.F.A., Northern Illinois University;  
B.A., Texas Christian University

NIJOLE CARIGNAN  
Assistant Director, Marketing & Communications  
B.S., Fitchburg State University

PATRICIA CARROLL  
SIMS Medical Lab Assistant, Nursing  
B.S., Fitchburg State University

SHAWN CASE
Associate Professor, Mathematics  
M.S., University of Rhode Island;  
B.S., Fitchburg State University

PETER CHIRICHIELLO  
Director, GEAR UP  
M.Ed., Springfield College;  
B.A., Keene State College

COLLEEN CLARK  
Assistant Dean of Workforce Development  
B.S., Fitchburg State University

LAUREN CLIFFORD  
Academic Counselor-Retention Specialist, Visions Program  
M.Ed., Merrimack College;  
B.S., University of Maine

NICHOLAS COCHRANE  
Assistant Professor, Business & Management  
M.B.A., University of Massachusetts;  
B.S.B.A., University of Massachusetts;  
A.S., Northern Essex Community College

NICHOLAS COLELLO  
Associate Director of Adult Education & Training/ Leominster Campus  
B.S., Fitchburg State University;  
A.S., Mount Wachusett Community College Liberal Studies

ARTHUR COLLINS, III  
Director, Media Services and Chief Engineer of Broadcasting and Electronic Media  
A.S., Wentworth Institute of Technology

HEATHER CONN  
Associate Professor, Biology  
M.A., Fitchburg State University;  
B.S., Hobart and William Smith Colleges

JESSICA CONNORS  
Staff Assistant, K-12 Partnerships  
B.S., Anna Maria College

MICHELLE CONTEY  
Academic Coordinator-Satellite Campus  
M.S., San Francisco State University;  
B.A., Rutgers College, Rutgers University

DENNIS CORMIER  
Senior Help Desk Technician, Information Technology  
B.S., Fitchburg State University;  
A.S., Mount Wachusett Community College

GLORIA CORREA  
Assistant Director of Financial Aid  
B.S., Nichols College;  
A.S., Mount Wachusett Community College

LESLIE C. CULLEN  
Associate Professor, GID Graphic and Interactive Design  
B.S., Fitchburg State University
ELIZABETH DALY
Director of Admissions
M.A., Framingham State College;
B.A., Framingham State College

HOLLY DAVIS
Comptroller
B.S., Bentley University

THEODORE DEMOSTHENES
Recruitment Counselor, Access & Transition
B.S., Fitchburg State University

RHONDA DIMATTEO
Community Outreach Counselor, School of Liberal Arts, Education, Humanities & Communications
A.S., Quinsigamond Community College

LORIE L. DONAHUE
Professor, English
M.A., Boston College;
B.A., Fitchburg State University

DANIEL J. DONOVAN
Professor, Computer Information Systems
M.B.A., University of Massachusetts;
B.S., University of Massachusetts
SARAH DORSEY  
Associate Director of Enrollment Operations  
B.A., University of Massachusetts-Amherst;  
A.A., Franklin Pierce University

LARA DOWLAND  
Professor, Biology/Biotechnology  
Ph.D., West Virginia University;  
B.A., Plymouth State University

ADAM DUGGAN  
Assistant Dean of Adult Education & Training  
Ed.D., Northeastern University  
M.A., Boston College;  
B.A., Emerson College

JAIME DUMONT MCEVOY  
Academic Counselor  
M.A., Anna Maria College;  
B.A., Anna Maria College;  
B.S., Anna Maria College

EDMUND DUNN  
Academic Counselor  
M.S., Binghamton University  
B.A., University of Buffalo

STEPHANIE ENGLAND  
Director of Marketing and Communications  
M.S., Southern New Hampshire University;  
B.A., Lyndon State College

SHELLEY ERRINGTON NICHOLSON  
Director, Senator Stephen M. Brewer Center for Civic Learning and Community Engagement  
M.S., University of Rhode Island;  
B.A., Roger Williams University

ELMER EUBANKS-ARCHBOLD  
Associate Professor, Business and Economics  
M.B.A., Anna Maria College;  
B.A., Walla Walla University;  
A.S., Walla Walla University

ALEXANDREA FLUET  
Staff Assistant, Campus Police

REBECCA FOREST  
Assistant Dean of Records and Institutional Research  
M.A., University of Massachusetts;  
B.S., Merrimack College

FAGAN FORHAN  
Assistant Dean, K-12 Partnerships and Civic Engagement  
B.A., University of Massachusetts

LYNNE FRANCIOSE  
Manager, Green St. Cafe

NANCY FRANZEN  
Business Manager, Access & Transition
JUDY A. FREDETTE
Professor, Nursing
M.S., University of Massachusetts;
B.S., Fitchburg State University;
A.S., Mount Wachusett Community College

MERCY FRIMPONG
Recruitment Counselor, Educational Talent Search, Access & Transition
B.S., Fitchburg State University

MARYLYN GAINAN
Senior Admissions Counselor, Admissions
M.Ed., Anna Maria College;
B.A., Franklin Pierce University

FERNANDO GARCIA-RODRIQUEZ
Community Outreach Counselor, North Central Educational Opportunity Center
B.S., Worcester State University;
A.S., Mount Wachusett Community College
LISA GENDRON  
Associate Professor, Nursing  
M.S.N., Framingham State University;  
B.S.N., University of New Hampshire;  
A.S.N Mount Wachusett Community College

JEFF GIBBS  
Assessment Assistant  
B.A., Framingham State University

SUSAN R. GOLDSTEIN  
Professor, English  
M.A., Fitchburg State University;  
M.B.A., Clark University;  
B.A., University of Massachusetts

RAMON GONZALEZ  
Senior Director, College Access  
M.S., Fitchburg State University;  
B.A., Massachusetts College of Liberal Arts

KIJAH GORDON  
Associate Director of Adult Education & Training-Devens Campus  
M.A., Anna Maria College;  
B.A., University of Massachusetts-Amherst

VERONICA GUAY  
Assistant Dean, Academic & Student Affairs  
M.B.A., Fitchburg State University;  
B.S., University of Vermont

SHARMES RE GUNN  
Academic Counselor/Resource Specialist, Gateway to College  
M.S., Clark University;  
B.S., Utica College of Syracuse University

SEHBA HASAN  
Assistant Director, STEM Program Manager  
B.S., Amravati University, India
CONSTANCE V. HELSTOWSKI
Director of Payroll and Benefits, Division of Human Resources & Payroll, Affirmative Action Office
A.S., Mount Wachusett Community College

JOHN M. HENSHAW
Dean, Workforce Development
Ph.D., University of Washington;
B.S., Western Washington University

VIRGINIA HEROUX
Associate Professor, Dental Hygiene
M.S., University of Bridgeport;
B.S.D.H., University of Rhode Island;
A.S., Northeastern University;
C.D.H., Forsyth School for Dental Hygienists

KRISTEN HICKEY
Instructor, Practical Nursing Program
M.S.N., Norwich University;
B.S.N., Fitchburg State University;
B.S., Fitchburg State University

REED HILLMAN
Professor, Criminal Justice
J.D., Suffolk University Law School;
B.S., Babson College

JEFFREY HIMMELBERGER
Data Manager/Evaluator, Health Care Opportunity Program
Ph.D., Clark University;
M.A., Clark University;
B.A., State University of New York at Potsdam

PATRICIA HOGAN
Assistant Professor, Nursing
M.S., Tennessee State University;
B.S., Aquinas College;
A.S., Aquinas College

RALPH HOGAN
Director of Upward Bound Math & Science/North Central Mass Talent Search, Access & Transition
M.A.T., Marian University;
M.S., Fitchburg State University;
B.A., Fitchburg State University

DANIEL HORLANDER
Executive Director, Information Technology Services
M.S., University of Illinois at Urbana-Champaign;
B.S., University of Illinois at Urbana-Champaign

GRETCHEN INGVASON
Senior Learning Specialist, Workforce Development
M.S., Eastern Michigan University;
B.S., Michigan Technological University

MARGARET JAILLET
Dean, of Health Sciences
D.P.T., Simmons College;
M.S., Worcester State University;
B.S., Northeastern University
ERIC THOMAS JOHNSON
Enrollment Data Manager, Office of Admissions
B.A., University of Massachusetts

THERESA KACIAN
Academic Coordinator-Retention Specialist, Advising Center
M.A., Assumption College;
B.S., Fitchburg State University;
A.S., Mount Wachusett Community College

KIMBERLY KAYSER
Senior Community Outreach Counselor/Transitions Coordinator
B.A., University of New Hampshire

GAURAV KHANNA
Director, TRIO Student Support Service Programs
M.B.A., University of Massachusetts;
B.A., University of Pune;
B.S., Institute of Hotel Management

FESTUS KIPRONO
Associate Professor, Math
M.S., University of Connecticut;
B.S., Mt. St. Mary’s University

KAREN KOLIMAGA
Chief, Campus Police & Public Safety
B.A., Curry College

JAMES M. KORMAN
Professor, Paralegal Program
J.D., Western New England College-Law School;
B.S., Springfield College;
A.S., Springfield College

HOLLY KREIDLER-PHANEUF
Academic Coordinator-Retention Specialist, Advising Center
M.S., Fitchburg State University;
B.A., University of Massachusetts

JESSICA KUSKEY
Assistant Professor, English
Ph.D., Syracuse University;
M.A., New York University;
B.A., Central Connecticut State University
KATHERINE REESE KUSZA
Health Care Counselor, Health Services
M.A., University of New Hampshire;
B.A., University of New Hampshire;
A.S., Mount Wachusett Community College

AMY LABARGE
Coordinator of Disability Services
M.Ed., Worcester State University;
B.A., Southeastern Massachusetts University

PETER LAITINEN
Assistant Professor, Paramedic Program
B.S.N., Curry College;
A.D.N., Greenfield Community College;
A.S., Quinsigamond Community College

VALERIE LAPORTE
Director, North Central Educational Opportunity Center
M.S., Worcester State University;
B.S., Worcester State University;
A.S., Mount Wachusett Community College

SHAWN LAROCHE
Senior Research Analyst, Institutional Research
B.A., University of Massachusetts

JONIE LATIMER-BRACY
Director, Early Childhood Education, Career Pathways
M.Edu., Anna Maria College;
B.A., Anna Maria College;
A.S., Mount Wachusett Community College

HEATHER LAYTON
Director, Grant Development
M.S., Antioch New England Graduate School;
B.S., University of New Hampshire

WILLIAM A. LEFRANCOIS
Professor, Biology
M.S., University of Lowell;
B.A., Merrimack College

KYLE LEGRAND
Assistant Manager, Dining Services
B.A., New England Culinary Institute

SUZANNE LEVASSEUR
Reference and Instructional Services Coordinator
M.L.I.S., University of Rhode Island;
B.A., Stony Brook University

THOMAS LINEHAN
Assistant Professor, Early Childhood Education
Ed.D., Plymouth State University;
M.Ed., University of New Hampshire;
M.S., University of New Hampshire;
B.M., William Paterson College
JOHN LITTLE
Associate Professor, Media Arts & Technology
M.S., Fitchburg State University;
B.S., Fitchburg State University;
A.S., Mount Wachusett Community College

SARAH LOPEZ
Recruitment Counselor, Gear Up
M.A.T., Mount Holyoke College;
B.S., Salem State University

ALAINA LUCCHETTI
Academic/Transfer Counselor, Rx Program/TRIO Student Support Services
M.Ed., Cambridge College;
B.S., University of Massachusetts, Amherst

ANGELA LUNN-MARCUSTRE
Test Administrator, Adult Education
B.S., Worcester State University;
A.S., Quinsigamond Community College

MICHELLE MACKIE
Staff Assistant, Devens Campus
Human Services Technician Certificate, Mount Wachusett Community College

CATHERINE MADDOX-WILEY
Academic Counselor/Retention Specialist, Rx Program/TRIO Student Support Services
M.Ed., University of Minnesota-Duluth;
B.A., Luther College

MARY MAGA
Coordinator LPN Bridge Program
M.S.N., Simmons College;
M.S., Fitchburg State University;
B.S.N., Fitchburg State University

JOSE MANGUAL
Academic Counselor
M.Ed., Cambridge College;
B.A., University of the Sacred Heart

MELISSA MANZI
Senior Academic Counselor/Mental Health Counselor
M.S.W., Boston University;
B.S., University of Massachusetts

STEPHANIE MARCHETTI
Director of Academic Support and Testing Services
M.S., Fitchburg State University;
B.S., Fitchburg State University

LENIRAE MARTYN-SEIDL
Student Activity Officer, Access & Transition
B.S., Fitchburg State University;
A.S., Middlesex Community College
KATHLEEN MATSON  
Student Life Assistant  
B.A., Nichols College;  
A.S., Mount Wachusett Community College

THOMAS MATSUDA  
Professor, Art  
M.F.A., University of Massachusetts-Amherst;  
B.F.A., Pratt Institute

ROBERT MAYER  
Director of Veterans Services  
B.S., Daniel Webster College

ELLEN MCCrackEN  
Associate Professor, Dental Hygiene  
M.Ed., Worcester State University;  
B.S.D.H., Medical College of Virginia

KATHLEEN MCGINN  
Professor, Physical Therapist Assistant Program  
D.P.T., Simmons College;  
C.M.T., Bancroft School of Massage Therapy;  
M.Ed., Worcester State University;  
B.S., Quinnipiac College

MICHELE MCGRATH  
Associate Professor, Nursing  
M.S., University of Massachusetts-Worcester;  
B.S., University of Massachusetts-Amherst;  
A.S., Quinsigamond Community College

JO-ANN MEAGHER  
Senior Staff Associate to the President and MWCC Foundation, Inc.  
A.S., Mount Wachusett Community College

AMANDA MEYER  
Academic Coordinator-Retention Specialist, Advising Center  
M.Ed., Springfield College;  
B.A., Keene State College

PATRICIA MEZA  
Professor, Nursing  
M.S., University of Massachusetts;  
B.S.N., Emmanuel College, Boston

JAMES MILLER  
Senior Network Engineer, Information Technology Services  
B.S., Fitchburg State University

JOYCE MILLER  
Professor, Art  
M.F.A., University of Massachusetts-Amherst;  
B.F.A., Illinois State University

THOMAS J. MONTAGNO  
Professor, Biology  
Ph.D., Ohio State University;  
M.S., Ohio State University;  
M.A., Ohio State University;
B.S., Ohio State University

**ROSANNE MOREL**
Professor, Early Childhood Education  
Ed.D., Nova Southeastern University;  
M.Ed., Adelphi University;  
B.S., Adelphi University

**BRETT MOULTON**
Systems Support Specialist, Information Technology Services  
B.S., University of Massachusetts-Lowell

**LAUREN T. MOUNTAIN**
Director, United Way Youth Venture  
M.B.A., Suffolk University;  
B.S., Northeastern University

**SHANE MULLEN**
Director of Enterprise Systems, Information Technology Services  
B.S., Salem State College

**SHEILA M. MURPHY**
Professor, Psychology/Human Services  
M.A., Boston College;  
B.A., Regis College
ELAINE M. MURRAY
Academic Counselor, Academic Advising
B.A., Worcester State University

JESS MYNES
Assistant Dean, Library Services and Technologies
M.L.I.S., University of Rhode Island;
B.A., Saint Lawrence University, Canton, NY

LISA NAZE
Assistant Professor, Biology
M.A., State University of New York College at Geneseo;
B.S., State University of New York College at Oswego

PHUONG-SON NGUYEN
Associate Professor, Chemistry
Ph.D., University of Massachusetts-Lowell;
M.S., University of Massachusetts-Lowell;
B.S., University of Massachusetts-Lowell

LAURIE OCCHIPINTI
Dean, School of Liberal Arts, Education, Humanities & Communications
Ph.D., McGill University, Montreal, Quebec;
M.A., McGill University, Montreal, Quebec;
B.A., University of Massachusetts-Amherst

ANGELA O’CONNELL
Help Desk Specialist, Information Technology Services
B.S., Fitchburg State University

CHERYL OLIVERI
Staff Assistant, Planning, Development & Institutional Research
B.A., Assumption College;
A.S., Assumption College

PETER OLSZAK
Associate Professor, Math and Physics
Ph.D., University of Central Florida;
M.S., University of Central Florida;
B.S., Worcester Polytechnic Institute

MICHELLE PARANTO
Associate Vice President of Academic Affairs
Ed.D., University of Massachusetts;
M.A., San Diego State University;
B.A., University of New Hampshire

TIFFANY PARKER
Director of Institutional Research & Assessment
M.A., Minnesota State University, Mankato;
B.A., University of Maine

BRIANA PENA
Career Development Coach
M.S., Lasell College;
B.A., Worcester State University

SHAUNTI PHILLIPS
Academic Counselor, Access & Transition
M.S., Fitchburg State University;
B.A., University of North Carolina-Chapel Hill

MEGHAN PICONE
Professor, Nursing
M.S.N., Fort Hays State University;
B.S.N., Johns Hopkins University;
B.A., College of the Holy Cross
SARAH PINGETON
Transfer Counselor, Student Support Services
M.A., Assumption College;
B.A., Emmanuel College

PAULA A. PITKIEWICZ
Professor, English
M.A., University of Massachusetts;
B.A., Fitchburg State University;
A.A., Mount Wachusett Community College

KELSIE POTTS
Career Development Counselor, Adult Education
M.Ed., Cambridge College;
B.A., Colby College

ELLEN MADIGAN PRATT
Distance Education and Outreach Librarian
M.L.S., University of Alabama;
B.A., Fitchburg State University

MAUREEN PROVOST
Associate Professor, Early Childhood/Elementary Education & Garrison Center Liaison
M.S.Ed., University of New England;
B.A., Trinity College

ERIKA PUCCIO
Academic Counselor/Health Career Opportunity Program
M.S., University of Massachusetts-Boston;
B.S., University of Connecticut

LORI PUCKO
Staff Assistant/Group Fitness, Mount Fitness

MARTHA RAINVILLE
Staff Assistant, Leominster Campus
A.A., Mount Wachusett Community College

CAROL REED
Professor, Computer Information Systems
Ed.D., Nova Southeastern University;
M.S., New Hampshire College;
B.S., New Hampshire College;
A.S., Mass Bay Community College

VANESSA REID
Student Activity Officer, Access & Transition
M.A., Anna Maria College;
B.S., Framingham State University

JACQUELINE RENWICK
Aquatics Director, Mount Fitness
M.A., Western Michigan University;
B.A., Point Loma Nazarene University

ANN REYNOLDS
CCAMPIS Coordinator/Academic Disability Counselor
M.A., Assumption College;
B.A., Assumption College;
A.S., Mount Wachusett Community College
URSULA RICE
Recruitment Counselor, Access & Transition
B.S., University of Massachusetts, Amherst;
A.S., Mount Wachusett Community College

SHARON RIVERS
Transfer Counselor (ACT)
M.Ed., Salem State University;
B.S., Salem State University
KARA ROCHE
Associate Professor, English
M.A., Fitchburg State University;
B.A., Northeastern University

CAMILLA ROJAS
Staff Assistant, Workforce Development-Devens
B.S., Fitchburg State University

VICTOR ROJAS
Assistant Director of GEAR UP, Access & Transition
B.S., Fitchburg State University

YAMILEYKA ROJAS
Academic Counselor, Access & Transition
M.Ed., Merrimack College;
B.A., Massachusetts College of Liberal Arts;
A.A., Mount Wachusett Community College

MARCIA ROSBURY-HENNE
Dean of Admissions & Enrollment Management
B.A., Marist College

MITCHELL RUSCITTI
Assistant Director for Grant Development and Compliance
MPA, University of Kentucky;
B.A., University of Massachusetts

JULIE SALLET
Career Development Counselor, Adult Education & Training
B.S., Fitchburg State University

DONNA SANTIMORE
Associate Professor, Nursing
M.S.N., Northeastern University;
B.S.N., Emmanuel College

MELISSA SARGENT
Assistant Dean of Academic Affairs
M.A., University of South Dakota;
B.A., University of Massachusetts-Amherst;
A.S., Mount Wachusett Community College

LINDA VELEZ SCULLANE
Director of STEM Starter Academy, Articulation & Curriculum Pathways
M.S., Fitchburg State University;
B.S., Fitchburg State University

JACQUELINE SHAKAR
Professor, Physical Therapist Assistant Program
D.P.T., MGH Institute of Health Professionals;
C.M.T., Bancroft School of Massage Therapy;
M.S., Boston University;
B.A., Worcester State University
KIMBERLY SHEA  
Director of Nursing  
M.S.N., Drexel University;  
B.S.N., Drexel University;  
A.S., Mount Wachusett Community College

TRACY SHERIDAN  
Senior HR Payroll Generalist/Payroll & Benefits, Division of Human Resources & Payroll, Affirmative Action Office  
A.S., Mount Wachusett Community College

CANDACE SHIVERS  
Associate Professor, Human Services/Sociology  
M.A., Assumption College;  
B.A., American International College;  
B.S., American International College

ALEXANDRA SHOLTES  
Recruitment Counselor, Gear Up  
B.A., Keene State College

JENNIFER SHORTIS  
Staff Assistant/Member Services, Mount Fitness  
B.S., Fitchburg State University;  
A.S., Mount Wachusett Community College

INDIRA SMART  
Recruitment Counselor/North Central Mass Talent Search, Access & Transition  
B.A., Franklin Pierce University

MICHELLE SMITH  
Associate Professor, Nursing  
M.S., University of Massachusetts;  
B.S., University of New Hampshire;  
A.D.N., Mount Wachusett Community College

JASON SNOONIAN  
Director, Mount Fitness  
B.S., University of Massachusetts-Amherst

LAURIE SNOONIAN  
Staff Associate for the President and Finance & Administration  
M.S., Northeastern University;  
B.A., San Diego State University;  
A.A., Mira Costa Community College

DANIEL SOUCY  
Associate Professor, Philosophy  
M.A., The State University of New York at Albany;  
B.A., Westfield State College

TRESSA STAZINKSI  
Director of Correctional Education, Lifelong Learning & Workforce Development  
M.B.A., Fitchburg State University;  
B.S., Curry College

GAIL STEELE  
Professor, Theatre  
M.A., Miami University-Ohio;  
B.A., Bridgewater State University

LISA STEJSKAL
Program Director/Health Care Opportunity Program  
M.Ed., McKendree University;  
B.S., University of St. Francis;  
A.A.S., Southwestern Illinois College

PAUL SWERZENSKI  
Professor, GID Graphic and Interactive Design  
M.A., Beacon College;  
B.A., Montclair State University

HEIDI SWIFT  
Assistant Comptroller  
A.S., Mount Wachusett Community College

WILLIAM SWIFT  
Director, Maintenance and Mechanical Systems

SANDY TAVARES  
Assistant Director, North Central Educational Opportunity Center  
M.A., Assumption College;  
B.A., University of Massachusetts-Dartmouth

SUSAN TAYLOR  
Professor, Computer Information Systems  
M.S., Fitchburg State University;  
B.S., Fitchburg State University;  
A.S., Becker Jr. College
COLLENE THAXTON
Associate Professor, Nursing
M.S.N., Massachusetts General Hospital School of Nursing;
B.S., Springfield College

DAVID THIBAULT-MUNOZ
Academic Counselor/Resource Specialist/FYE/ CPT Instructor
Gateway to College Dual Enrollment Program;
M.Ed., University of Illinois at Chicago;
B.A., Binghamton University

NANCY THIBODEAU
Staff Assistant, Division of Human Resources & Payroll, Affirmative Action Office
A.S., Mount Wachusett Community College

JEFFERY M. THOMPSON
Assistant Professor, Physics and Mathematics
(2) M.S., Rensselaer Polytechnic Institute;
B.S., Shippensburg State University;
A.A., Harrisburg Area Community College

VENUSA TOOMEY
Assistant Professor, Medical Assisting Program
M.D., Saint Louis University;
M.Ed., Northeastern University;
B.S., Saint Louis University

DONNA TOOTHAKER
Program Manager, United Way Youth Venture

LINDA TROWBRIDGE
Program Assistant, Senator Stephen M. Brewer Center for Civic Learning and Community Engagement
M.S., Antioch University New England;
B.A., Boston University

THOMAS VALLETTA
Assistant Professor, Mathematics
M.S., University of Rhode Island;
B.S., University of Rhode Island;
B.A., University of Rhode Island

MICHELLE VALOIS
Professor, English
M.F.A., University of Massachusetts;
B.A., University of Massachusetts

JACOB VANHILLO
Outreach Liaison, United Way Youth Venture
A.S., Mount Wachusett Community College

SARA VETTESE
Director of Early College and Dual Enrollment
M.A., Assumption College;
B.A., Assumption College

NANCY WADA
Associate Professor, Nursing
M.S.N., Case Western Reserve University;
B.S., Columbia Union College;
A.S., Atlantic Union College
MEGAN WARFIELD
Associate Registrar, Records Office
C.A.G.S., Northeastern University;
M.A., Framingham State University;
B.A., Framingham State University

JENNIFER WELCH
Senior Special Programs Coordinator, Access & Transition
M.F.A., Florida International University;
M.A., Auburn University;
B.A., Fitchburg State University;
A.S., Mount Wachusett Community College

HEIDI WHARTON
Academic Counselor, Health Care Opportunity Program
M.A., Lesley University;
B.A., Capital University

MARCUS WILLIAMS
Assistant Director, Enrollment
B.S., UMASS Dartmouth

SARA WILLIAMS
Student Support Services Program Manager, TRIO SSS Programs
M.S., Southern New Hampshire University;
B.A., Hartwick College

TINA WILSON
Professor, Computer Information Systems
M.S., Fitchburg State University;
B.S., Fitchburg State University

TRAIN WU
Director, Diversity Pipeline
M.Ed., Merrimack College;
B.S.W., Rhode Island College

DAVID WYMAN
Associate Professor, English
M.A., University of New Hampshire;
B.A., Fitchburg State University;
A.S., Mount Wachusett Community College

CARLA ZOTTOLI
Executive Director, Development & MWCC Foundation
B.A., University of Massachusetts-Amherst
CLASSIFIED STAFF

(List includes full-time benefited employees)

**CHARLENE A. ADAMS**
Administrative Assistant I, Liberal Arts, Education, Humanities & Communications
A.S., Mount Wachusett Community College

**LORI ADAMS**
Reproduction Service Supervisor, Printing Services
A.S., Mount Wachusett Community College

**JESSE ALLAIN**
Instructional Media Specialist, Media Services
M.M., Boston University;
B.A., Franklin Pierce University;
A.S., Mount Wachusett Community College

**JOHN BERGERON**
Building Maintenance Supervisor II, Facilities Management
A.S., Mount Wachusett Community College

**SARAH BOLDEN**
Clerk IV, Facilities Management
A.S., Mount Wachusett Community College

**DENISE BOLDUC**
Accountant IV, College Business Office
B.S., University of North Florida

**NORMAN BOUDREAU**
Electrician II, Facilities Management

**BRENDA BOURGEIOIS**
Clerk V, Academic Affairs
A.A., Mount Wachusett Community College;
A.S., Mount Wachusett Community College

**DEBORAH BRENNAN**
Administrative Assistant I, Academic Affairs
A.S., Mount Wachusett Community College

**JASON BRUNELLE**
Plumber & Steamfitter II, Facilities Management

**CHAD CHARBONNEAU**
Maintainer I, Facilities Management

**LEONARD CHARBONNEAU**
Motor Equipment Mechanic IV, Facilities Management
CHRISTOPHER CHOUINARD  
Instructional Media Specialist  
M.S., Fitchburg State University;  
B.S., Fitchburg State University;  
A.S., Mount Wachusett Community College

ANA E. CONTRERAS  
Maintainer I, Facilities Management

CHELSEA COPPENRATH  
Maintainer I, Facilities Management  
A.S., Mount Wachusett Community College

JOYCE CORMIER  
Administrative Assistant II, Marketing & Communications  
A.S., Mount Wachusett Community College

EILEEN COTE  
Clerk IV, Financial Aid

JENNIFER CRANDALL  
Laboratory Technician I  
A.S., Mount Wachusett Community College

JO-ANNE CRONIN-FORS  
Administrative Assistant II, Lifelong Learning/Leominster  
A.S., Quinsigamond Community College

MELISSA CROTEAU  
Campus Police Officer III (Lieutenant), Campus Police & Public Safety  
Ed.D., University of New England;  
M.E.D., Fitchburg State University;  
B.S., Fitchburg State University;  
A.S., Mount Wachusett Community College

SUSAN CULLINANE  
Administrative Assistant II, Financial Aid  
A.S., Mount Wachusett Community College

ALAN CUMMING  
Forester I  
B.S., University of Massachusetts-Amherst;  
A.S., Stockbridge School of Agriculture

LEONARDO DA SILVA VIANA  
Cook I, Green St. Cafe
PEGGY DOW
Clerk IV, Lifelong Learning & Workforce Development

CYNTHIA DOYLE
Accountant II, Student Accounts
A.S., Mount Wachusett Community College

JOHN FEMINO
Utility Plant Operator, Facilities Management

PETER FEMINO
Utility Plant Operator, Facilities Management

LISA FERRARA-CARON
Accountant I, College Business Office
A.A., Northern Essex Community College
A.S., Mount Wachusett Community College

CHELSEA GARRITY
Clerk III, Theater Box Office
A.S., Mount Wachusett Community College

ELEANOR GAUTHIER
Maintainer II, Facilities Management

DONALD GIARDINO
Painter II, Facilities Management

MICHELE GODERRE
Administrative Assistant I, Devens Campus
B.S., Bridgewater State;
A.S., Mount Wachusett Community College

SUSAN GUARTAFIERRO
Administrative Assistant I, Admissions Office
B.A., Assumption College

RANDY HAIMILA
Maintainer I, Facilities Management
B.S., Fitchburg State University

JAMES HALKOLA
Campus Police Officer II, Sergeant Campus Police & Public Safety

MATTHEW HIRONS
Storekeeper IV, Facilities Management
B.A., University of Massachusetts-Amherst

SAMANTHA JOHNSON
Laboratory Technician I
B.S., University of New England

JOYCE KIRKWOOD
Campus Police Officer I, Campus Police & Public Safety
B.S., University of New Haven

LORETTA KLINE
Laboratory Technician I, Business, Science, Technology & Mathematics
MAT, Fitchburg State University;
B.S., Fitchburg State University;
A.S., Middlesex Community College
MICHAEL LADEAU
Campus Police Officer I, Campus Police & Public Safety
WILLIAM LAND, JR.
Maintainer III, Facilities Management
A.S., Mount Wachusett Community College

DANIELLE LAPLANTE
Accountant IV, College Business Office
A.S., Mount Wachusett Community College

BARBARA LOGAN
Clerk III, Admissions Office

LUZ E. LOPEZ
Administrative Assistant I, Business, Science, Technology & Mathematics
A.S., Mount Wachusett Community College

ANN MARSHALL
Accountant IV, Student Accounts
A.S., Mount Wachusett Community College

JOYCE M. MAYNARD
Administrative Assistant II, Records Office

DANIEL P. MCMILLEON
Maintenance Equipment Operator, Facilities Management

LAURENE M. MINNS
Storekeeper IV, Facilities Management

TRAVIS MONAHAN
Maintainer I, Facilities Management

JAMES MONETTE
Maintainer I, Facilities Management

TAMI MORIN
Administrative Assistant I, Access & Transition
A.S., Fisher College

CARLA MORRISSEY
Library Assistant III, Circulation Supervisor
MICHAEL ODURO
Campus Police Officer I, Campus Police & Public Safety

AMY OSBORNE
Buyer II, College Business Office
A.S., Becker College

RAEANNE O’SULLIVAN
Accountant II, College Business Office
B.S., Stonehill College

TIMOTHY PARE
Campus Police Officer I, Campus Police & Public Safety
B.S., Fitchburg State University
A.S., Mount Wachusett Community College

STEVE PENNEY
Maintainer I, Facilities Management

NANCY REGAN
Clerk V, Health Services
A.S., Mount Wachusett Community College

KRISTAL ROBICHAUD
Cook I, Green St. Cafe

YONG SADDLER
Clerk II, North Central Educational Opportunity Center
A.S., Mount Wachusett Community College

JOSEPH SARNO
Campus Police Officer I, Campus Police & Public Safety

SARAH SAVOIE
Administrative Assistant II, Student Services
A.S., Greenfield Community College

DARREN SENECAL
Campus Police Officer I, Campus Police & Public Safety
A.S., Mount Wachusett Community College

DANIEL ST. ONGE
Mail Clerk II, Facilities Management

CHRISTOPHER STARBARD
Maintainer I, Facilities Management

ALYSSA STEVENS
Administrative Assistant I, Academic Support Center

MARIANNE STOY
Administrative Assistant I, Health Professions, Public Service Programs and Social Sciences
A.S., Mount Wachusett Community College

KATHLEEN SUCHOCKI
Administrative Assistant I, Health Professions, Public Service Programs and Social Sciences
A.S., Mount Wachusett Community College

MAXWELL SUMNER
Campus Police Officer I, Campus Police & Public Safety
A.S., Mount Wachusett Community College
NICHOLAS TAVERNA
Clerk III, Records Office

NEIL THOMAS
Maintainer I, Facilities Management

ROBERT THOMAS
Maintainer I, Facilities Management
ZULMA M. TORRES
Clerk V, Fitchburg Dental Hygiene
B.S., Fitchburg State University

PAUL VALILA
Maintainer I, Facilities Management

JOSUE VELEZ
Maintainer I, Facilities Management

CHRISTAL VOORHEIS
Clerk V, Advising Center
A.S., Mount Wachusett Community College

DENISE WHITNEY
Administrative Assistant I, Lifelong Learning and Workforce Development
A.S., Mount Wachusett Community College

BRANDON WILLIAMS
Maintainer I, Facilities Management

GARDNER WOOD
Maintainer II, Facilities Management

MONICA YESMENETES
Accountant III, College Business Office
B.S., Fitchburg State University;
A.S., Mount Wachusett Community College

NON-UNIT CLASSIFIED STAFF
(List includes full-time benefited employees)

DEBORAH HOLLAND
Administrative Assistant I, Division of Human Resources & Payroll, Affirmative Action Office
GLOSSARY OF TERMS

This glossary is provided to assist students in understanding academic jargon used in this catalog and handbook.

accreditation: certification from an outside agency that an educational institution has met specific academic standards and requirements.

associate degree: a degree (at least 60 credits) granted by community colleges. (Some four-year colleges and universities also offer the associate degree).

bachelor degree: a degree (at least 120 credits) granted by colleges and universities.

career programs: programs that are focused on preparing students for careers upon successful completion of the program.

concentration: a program with a set of four or more specific career courses used to replace general electives that is recognized on the student's diploma.

cost of education: the total cost of your education, including tuition and fees, room and board, books, transportation, and other miscellaneous living expenses.

course: organized subject matter in which instruction is offered within a given period of time and for which credit is usually given.

credit: the unit of measure used to record a student's course load. (One credit usually represents one hour of class time a week in a given subject.)

curriculum: a systematic group of courses or sequence of subjects required for graduation or certification in a major field of study.

dean: a major officer of the college who is responsible, under the president, for the administration and supervision of instructional activities, fiscal affairs, or student services.

double major: a program of study in which a student completes the requirements of two distinct programs.

elective: a course chosen by a student, as opposed to one required by the college or department.

financial need: the difference between your total cost of education and what you and your family are expected to pay. This is the figure that determines the amount of financial aid for which you may qualify.

full-time student: an undergraduate taking at least 12 credits a semester. In order to graduate in two or four years, a student should average 15 credits a semester.

grant: a sum of money awarded as financial aid that does not have to be repaid.

learning disability: a diagnosed neurological condition that impacts or interferes with an individual’s ability to store, process or produce information. Learning disabilities can affect a student’s ability to read, write, speak, hear, spell, compute math, or reason; and may also affect attention, memory, concentration, social skills or emotional maturity.

lecture: a method of teaching by which the instructor gives an oral presentation of facts or principles, with the student usually responsible for taking notes.

loan: a sum of money that you borrow and must repay. Student loans are often part of a financial aid package.

major: the program of study in which a student chooses to specialize. Students are required to follow the curriculum in their major in order to meet graduation requirements.

matriculated: a student who is accepted by and enrolled in a college or university, and who is working toward a degree or certificate.

non-matriculated: a student who is accepted by and taking classes at the college, but who is not working toward a degree.

option: gearing electives of a career program to provide additional course work in a particular subject matter.
grade point average: a measure of average scholastic success in all subjects taken during the semester or accumulated over several semesters.

prerequisite: a course that a student is required to complete satisfactorily before enrolling in succeeding or advanced courses.

registrar: a college official responsible for maintaining student records, scheduling classes and examinations, and registering students.

scholarship: a form of financial aid that may be awarded based on academic or athletic achievement, or financial need. Scholarships usually do not have to be repaid.

syllabus: a document that is given to students the first day of class. It is a contract between the student and the faculty member and includes information regarding course assignments, course requirements and an outline of the topics to be covered in a course (or in a text).

track: gearing electives in the interdisciplinary studies or liberal arts programs to lead to another two- or four-year program.

transfer program: an education program offered by the community colleges specifically for students who plan to transfer and continue their studies at a four-year college or university.

Federal Work-Study Program: a federal financial aid program that offers students the opportunity to combine employment with college study. The employment may be an actual part of an academic program, as in an internship, or simply a way to earn money to pay for educational expenses.
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http://catalog.mwcc.edu/previouscatalogs/2014-15/

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**2013-2014 CATALOG**
http://catalog.mwcc.edu/previouscatalogs/2013-14/

Welcome to Mount Wachusett Community College's first online catalog!

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**2012-2013 CATALOG**
http://mwcc.edu/catalog/files/2012/04/2012-2013-Catalog.pdf

**2011-2012 CATALOG**

**2010-2011 CATALOG**
http://mwcc.edu/PDFs/catalog2010.pdf

**2009-2010 CATALOG**
http://mwcc.edu/PDFs/catalog2009.pdf

**2008-2009 CATALOG**

**2007-2008 CATALOG**

**2006-2007 CATALOG**
http://mwcc.edu/PDFs/catalog2006.pdf

**2005-2006 CATALOG**
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### Main Gardner Campus
**Address:** 444 Green St. | Gardner, MA 01440 | 978-632-6600

**From Points East:**
1. Take RTE 2W to RTE 140N
2. Take Exit 24B
3. Proceed one-half mile past the second traffic light & turn left onto Matthews St.
4. MWCC is one mile on the right

**From Points West:**
1. Take RTE 2E to RTE 140N
2. Take Exit 24
3. Turn left at the end of the ramp
4. Proceed one-half mile past the second traffic light & turn left onto Matthews St.
5. MWCC is one mile on the right

**From Worcester & Providence:**
1. Take I-190N to RTE 2W to RTE 140N
2. Take Exit 24B
3. Proceed one-half mile past the second traffic light & turn left onto Matthews St.
4. MWCC is one mile on the right

**From Points North:**
1. Take RTE 12S to RTE 140S
2. Bear right onto Green St.
3. MWCC is one-half mile on the left

### Leominster Campus
**Address:** 100 Erdman Way | Leominster, MA 01453 | 978-630-9810

**From Points East:**
1. Take RTE 2W
2. Take Exit 31B
3. Turn right at the end of the ramp
4. At the traffic light take a right onto Erdman Way
5. MWCC is in the brick building on the left (2nd floor)
6. Use the back parking lots

**From Points West:**
1. Take RTE 2E
2. Take Exit 31
3. Turn left at the exit ramp lights
4. At the traffic light take a right onto Erdman Way
5. MWCC is in the brick building on the left (2nd floor)
6. Use the back parking lots

### Devens Campus
**Address:** One Jackson Place | 27 Jackson Rd. | Devens, MA 01434 | 978-630-9569

**From Points East:**
1. Take RTE 2W to RTE 13N (Exit 32) to RTE 2AW
2. At RTE 2AW stoplight turn left
3. At first set of lights, turn right onto John Fitch Highway
4. Turn left at RTE 31 stop sign
5. MWCC is in the Babineau Professional Building on the hill on the right (2nd floor)

**From Points West:**
1. Take RTE 2E to RTE 12N (Exit 31)
2. Proceed on RTE 12N for 1.7 miles
3. At the traffic lights, turn right onto Bemis Rd.
4. Turn left at RTE 31 stop sign
5. MWCC is in the Babineau Professional Building on the hill on the right (2nd floor)

**From Points South:**
1. Take I-190N to RTE 2W to RTE 13N (Exit 32)
2. At RTE 2AW stoplight turn left
3. At first set of lights, turn right onto John Fitch Highway
4. Turn left at RTE 31 stop sign
5. MWCC is in the Babineau Professional Building on the hill on the right (2nd floor)

### Fitchburg Campus (Dental Only)
**Address:** 326 Nichols Rd. | Fitchburg, MA 01420 | 978-630-9413

**From Points South:**
1. Take I-190N to RTE 2W to RTE 13N (Exit 32)
2. At RTE 2AW stoplight turn left
3. At first set of lights, turn right onto John Fitch Highway
4. Turn left at RTE 31 stop sign
5. MWCC is in the Babineau Professional Building on the hill on the right (2nd floor)