PRE-PHARMACY

The Pre-Pharmacy 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 Pre-Pharmacy Track 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 Liberal Arts and Sciences Degree includes the MassTransfer Block.

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

PRE-PHARMACY TRACK (LAPH)
A DEGREE IN LIBERAL ARTS AND SCIENCES

This program is designed to prepare students to transfer in pre-pharmacy studies with an A.A. degree and MassTransfer benefits. It will give the students the first two years of a typical pre-pharmaceutical program, so that they can transfer into four-year institution. Since many of these classes are two-semester sequential courses, it is recommended that students start this program in the fall.

Year 1
Fall
- ENG 101: College Writing I, 3 credits
- CHE 107: General Chemistry I, 4 credits
- MAT 163: Pre-Calculus, 4 credits
- PSY 105: Introduction To Psychology, 3 credits
- BIO 109: Biology I, 4 credits

Spring
- ENG 102: College Writing II, 3 credits
- SPC 113: Speech (formerly THE113), 3 credits
- BIO 110: Biology II, 4 credits
- CHE 108: General Chemistry II, 4 credits
- MAT 211: Calculus I, 4 credits

Year 2
Fall
- BIO 205: Microbiology, 4 credits
- CHE 207: Organic Chemistry I, 4 credits
- PHY 120: Physics for Engineering and Science I, 4 credits

Spring
- Culturally Diverse Literature Elective (see List below), 3 credits

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<td>ENG 101</td>
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<td>CHE 107</td>
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<td>MAT 163</td>
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<td>PSY 105</td>
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<td>BIO 109</td>
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Total Credits: 64

1 Capstone course

CULTURALLY DIVERSE LITERATURE ELECTIVE

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<td>ENG 221</td>
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See Pre-pharmaceutical program student learning outcomes and technical standards.

Helpful hints
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 (http://catalog.mwcc.edu/academicresources/#honorsprogramtext) for more information.

Transfer options
For transfer options, please click here. (http://catalog.mwcc.edu/academicresources/#transferinformationtext) 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 LAPH
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 historic, social, and cultural backgrounds necessary for 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.

• 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 LAPH

For general information about technical standards and accommodation, see Technical Standards. (http://catalog.mwcc.edu/admissions/selectiveprogramrequirements/physicaltherapistassistantdegree)
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.