

PRE-MEDICAL TECHNOLOGY, ASSOCIATE OF SCIENCE (416)

About Our Program

This program is intended to provide the first two years of a four-year baccalaureate program. Students in this major study how to become technicians in medical settings. Students learn about laboratory testing techniques, evaluating test results done on patients, interpreting the results of tests, and monitoring laboratory testing instruments.

Nature of Work and Employment

Typical job titles graduates of four-year baccalaureate programs in this major have include chief technologist, laboratory manager, clinical laboratory scientist, immunology technologist, and staff technologist. Due to the growth of the middle-aged and older population and the new development of new diagnostic techniques, there is an increased demand for medical laboratory services. Employment is primarily in hospitals, but there are jobs available in independent laboratories, physicians' offices, veterinarians' offices, and public health agencies.

Special Considerations

Students must have an interest and skills in science and electronic/ computer technology, numerical aptitude, attention to detail, accuracy, precision, patience, and the ability to work under pressure. The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements and specific university requirements in this major. Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met. Colleges and universities have specific requirements for transfer students.

Requirements

Associate of Science Requirements

Students must meet all requirements for the Associate of Science degree (<https://catalog.highland.edu/programs-available/as-requirements/>) in order to graduate from Highland Community College. For more information, please see your advisor.

Recommended Courses

The following are recommended courses for this major only.

Biology

Code	Title	Hours
BIOL 208	Biology I: Cell & Molecular ¹	4
BIOL 209	Biology II: Biodiversity/Evolu ¹	4
BIOL 120	Found of Anatomy & Physiology	5
BIOL 211	General Microbiology ¹	4

Chemistry

Code	Title	Hours
CHEM 123	General College Chemistry I ¹	5
CHEM 124	General College Chemistry II ¹	5
CHEM 221	Organic Chemistry I ¹	5
CHEM 222	Organic Chemistry II ¹	5

Mathematics

Code	Title	Hours
MATH 250	Analytic Geometry/Calculus I ¹	5
MATH 255	Analytic Geometry/Calculus II ¹	5

¹ Course has a prerequisite. See course description.

Program Outcomes

- Students should be able to understand and employ aspects of scientific methodologies.
- Students should practice proper lab technique in compliance with relative safety standards.
- Students should understand the fundamental uncertainties in experimental measurements inherent in different laboratory techniques and instrumentation.
- Students should be able to analyze data sets and communicate information in a clear and organized manner with presentations and properly cited written reports effectively.
- Students should be able to work with peers in a team setting.
- Students should be able to relate contemporary societal and global issues to the physical and life sciences.

Program Contacts

Call Highland at 815-235-6121 for the following program contacts:

- Dr. Brendan Dutmer, Dean, Natural Science and Mathematics
- Beth Groshans, Student Advisor