Medical Technology | Major

Alvernia offers a major in Medical Technology as part of the Bachelor of Science degree programs in both chemistry and biology. Students must complete one year of clinical study and experience at a school of medical technology approved by the National Accrediting Agency for Clinical Laboratories (NAACLS) after satisfying the program requirements at Alvernia. Alvernia provides assistance in making application for admission to the clinical year program; however, admission is determined solely by the hospital. All clinical year graduates become eligible to take the certification examination for Medical Technologist (M.T.).

### CHEMISTRY-MED. TECH. (50 credits)

**Major Requirements (28 credits)**
- CHE 104 General Chemistry I
- CHE 105 General Chemistry II
- CHE 107 Laboratory Safety
- CHE 110 General Chemistry I Lab
- CHE 111 General Chemistry I Lab
- CHE 201 Organic Chemistry I
- CHE 202 Organic Chemistry II
- CHE 210 Organic Chemistry I Lab
- CHE 211 Organic Chemistry II Lab
- CHE 212 Analytical Chemistry w/Lab
- CHE 301 Physical Chemistry I
- CHE 401 Biochemistry
- CHE 410 Biochemistry Laboratory

**Related Requirements (22 credits)**
- BIO 107 Human Anatomy and Physiology I
- BIO 108 Human Anatomy and Physiology II
- BIO 117 Human Anatomy and Physiology I Lab
- BIO 118 Human Anatomy and Physiology II Lab
- BIO 221 General Microbiology w/Lab
- BIO 303 Genetics
- BIO 409 Immunology
- MAT 209 Probability and Statistics

*Plus 39 credits in Liberal Arts core and COL 110/160 (2 credits)

### BIOLOGY-MED.TECH. (55-56 Credits)

**Major Requirements (29-30 credits)**
- BIO 103 Principles of Biology w/Lab
- BIO 104 Zoology w/Lab
- BIO 107 Anatomy and Physiology I
- BIO 108 Anatomy and Physiology II
- BIO 117 Anatomy and Physiology I Lab
- BIO 118 Anatomy and Physiology II Lab
- BIO 221 General Microbiology w/Lab
- BIO 303 Genetics
- BIO 409 Immunology
- 3-4 elective credits in biology

**Related Requirements (25 credits)**
- CHE 104 General Chemistry I
- CHE 105 General Chemistry II
- CHE 107 Laboratory Safety
- CHE 110 General Chemistry I Lab
- CHE 111 General Chemistry II Lab
- CHE 201 Organic Chemistry I
- CHE 202 Organic Chemistry II
- CHE 210 Organic Chemistry I Lab
- CHE 211 Organic Chemistry II Lab
- CHE 212 Analytical Chemistry w/Lab
- MAT 209 Probability and Statistics

*Plus 39 credits in Liberal Arts core and COL 110/160 (2 credits)

### Clinical Training at accredited hospital facility (30-32 credits)

Courses typically include: immunohematology, chemistry, clinical microscopy, coagulation, hematology, microbiology, serology and immunology. This is completed in the student's 4th year.

### CONTACT INFORMATION

Elizabeth Gardner, Ph.D.
Chair of Mathematics and Sciences
1-610-796-8247
elizabeth.gardner@alvernia.edu

Office of Admissions
1-610-796-8269
admissions@alvernia.edu