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
CHE 420 Medical Laboratory Science Clinical I
CHE 421 Medical Laboratory Science Clinical II

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
CHE 420 Medical Laboratory Science Clinical I
CHE 421 Medical Laboratory Science Clinical II

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 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
MAT 209 Probability and Statistics

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

Clinical Training at accredited hospital facility (32 credits-- made up of BIO or CHE 440 & 421)
Courses typically include: immunohematology, chemistry, clinical microscopy, coagulation, hematology, microbiology, serology and immunology. This is completed in the student’s 4th year.

Program requirements are subject to change. Contact your admissions counselor for the most up to date information.

CONTACT INFORMATION
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