**B.S. IN MEDICAL LABORATORY SCIENCE, 4+1 TRACK**  
**2018/2019 CATALOG**

### REQUIRED MAJOR COURSES (C- OR BETTER)

#### LOWER DIVISION BIOLOGY COURSES—ALL REQUIRED
- **BIOB 260**—Cell and Molecular Biology (4) - autumn, summer
- **BIOB 272**—Genetics and Evolution (4) - spring

#### MEDICAL LABORATORY SCIENCE MAJOR COURSES—ALL REQUIRED
- **BCH 380**—Biochemistry (4) - autumn, spring
- **BIOB 410/411**—Immunology/Lab (3/2) - autumn
- **BIOH 365**—Human Anatomy & Physiology I for Health Professions (4) - autumn
- **BIOH 405**—Hematology (3) - autumn
- **BIOM 360/361**—General Microbiology/Lab (3/2) - autumn
- **BIOM 402/403**—Medical Bacteriology and Mycology/Lab (3/2) - spring
- **BIOM 407/408**—Clinical Diagnosis/Lab (2/1) - spring
- **BIOM 427/428**—Parasitology/Lab (2/2) - autumn
- **BIOM 435**—Virology (3) - spring

### REQUIRED COURSES OUTSIDE OF THE MAJOR (C- OR BETTER)

#### CALCULUS—CHOOSE ONE OF THE FOLLOWING
- **M162**—Applied Calculus (4) - autumn, spring
- **M171**—Calculus I (4) - autumn, spring

#### STATISTICS—REQUIRED
- **STAT 216**—Intro to Statistics (4) - autumn, spring, summer

#### CHEMISTRY—ALL REQUIRED
- **CHMY 141N/142N**—College Chemistry I/Lab (4/1) - autumn, spring
- **CHMY 143N/144N**—College Chemistry II/Lab (4/1) - spring, summer
- **CHMY 221/222**—Organic Chemistry I/Lab (3/2) - autumn
- **CHMY 223/224**—Organic Chemistry II/Lab (3/2) - spring
- **CHMY 311**—Analytical Chemistry (4) - autumn

#### PHYSICS—ALL REQUIRED
- **PHSX 205N/206N**—College Physics I/Lab (4/1) - autumn, spring, summer  
  [or PHSX 215N/216N]
- **PHSX 207N/208N**—College Physics II/Lab (4/1) - autumn, spring, summer  
  [or PHSX 217N/218N]

In order to be certified by the Board of Registry, MLS students must be admitted to and complete a clinical practicum/internship of 12 consecutive months in a school endorsed by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and American Society of Clinical Pathology (ASCP). This year-long practicum is not required as part of the 4+1 Bachelor’s degree, but it is required for board certification.

For more information about the clinical laboratory profession: [http://hs.umt.edu/medtech/](http://hs.umt.edu/medtech/).  
Dr. Mike Minnick (mike.minnick@mso.umt.edu) is the MLS practicum advisor.

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BIOB 410/411 (BOTH REQUIRED)*