# B.S. IN MEDICAL LABORATORY SCIENCE, 4+1 TRACK
## 2019/2020 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 365/366—Human Anatomy & Physiology I for Health Professions & Lab (3/1) - 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/).

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