**B.S. IN MEDICAL LABORATORY SCIENCE, 4+1 TRACK**

**2016/2017 CATALOG**

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**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 [or BCH 480 & 482—Advanced Biochemistry I & II]
- BIOB 410/411—Immunology/Lab (5) - autumn
- BIOH 365—Human Anatomy & Physiology I for Health Professions (4) - autumn
- BIOH 405—Hematology (3) - autumn
- BIOM 360/361—General Microbiology/Lab (5) - autumn
- BIOM 402/403—Medical Bacteriology and Mycology/Lab (5) - spring
- BIOM 407/408—Clinical Diagnosis/Lab (3) - spring
- BIOM 427/428—Parasitology/Lab (4) - autumn
- BIOM 435—Virology (3) - spring

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

### MATHEMATICS—ALL REQUIRED
- M 162—Applied Calculus (4) - autumn, spring [or M171 – Calculus I]
- STAT 216—Intro to Statistics (4) - autumn, spring, summer

### CHEMISTRY—ALL REQUIRED
- CHMY 141N—College Chemistry I (5) - autumn, spring
- CHMY 143N—College Chemistry II (5) - spring, summer
- CHMY 221/222—Organic Chemistry I/Lab (5) - autumn
- CHMY 223/224—Organic Chemistry II/Lab (5) - spring
- CHMY 311—Analytical Chemistry (4) - autumn

### PHYSICS—ALL REQUIRED
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/ Lab (5) - autumn, spring, summer [or PHSX 217N/218N]

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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 practicum is not required for the MLS 4+1 track.

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.