# B.S. IN MEDICAL LABORATORY SCIENCE, 3+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—Immunology (3) - 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 427/428—Parasitology/Lab (2/2) - autumn
- BIOM 435—Virology (3) - spring

*DBS ADVANCED COLLEGE WRITING COURSE—RECOMMENDED COURSES
- BCH 486—Biochem Research Lab (3) - spring
- BIOB 411—Immunology Lab (2) - autumn
- BIOB 425—Adv Cell Biology (3) - spring
- BIOM 410/411—Microbial Genetics/Lab (3/1) - spring
- BIOM 499—Senior Thesis (3)

### **CLINICAL PRACTICUM AT AFFILIATED PROGRAM—ALL REQUIRED (MUST APPLY PRIOR AUTUMN)
- BIOH 470—Summer Clinical Internship (12) - summer
- BIOH 471—Professional Training I (13) - autumn
- BIOH 472—Professional Training II (12) - 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

**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). A practicum at one of our affiliated programs is required for the 3+1 Bachelor’s degree. For more information about the clinical laboratory profession: http://hs.umt.edu/medtech/. Dr. Mike Minnick (mike.minnick@mso.umt.edu) is the MLS practicum advisor.

MLS 3+1 track requires 130 credits. To be competitive for admittance into the required clinical practicum, MLS 3+1 students must be in good academic standing, with a GPA >3.0. Experience in a hospital/clinic laboratory is also highly recommended.