

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

## 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—Pathogenic Microbes/Lab (3/2) - spring

\_\_\_\_\_ BIOM 407/408—Clinical Diagnosis/Lab (2/1) - spring

\_\_\_\_\_ BIOM 427/428—General 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, summer

\_\_\_\_\_ 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/>  
Dr. Mike Minnick ([mike.minnick@mso.umt.edu](mailto:mike.minnick@mso.umt.edu)) is the MLS practicum advisor.**