MLTS 1370. Histology VI. (1 Credit)
The course is centered on the cultivation, methods of identification, antimicrobial susceptibility testing, serological diagnosis and correlation to disease states. Prerequisites: BIOL 2211K. Corequisite: MLTS 2101K. Offered: Spring, Summer.

MLTS 2101L. Medical Laboratory Technology III Lab. (2 Credits)
The laboratory component of the course develops the skills and competencies required to perform the diagnostic procedures in clinical microbiology. Prerequisite: BIOL 2211K. Corequisite: MLTS 2101K. Offered: Spring; online and traditional options.

MLTS 2101W. Medical Laboratory Technology III. (2 Credits)
This course presents a study of human clinical bacteriology including general bacteriology, aerobic gram-positive cocci, gram-negative bacilli, gram-negative cocci, gram-positive bacilli and anaerobes. Discussion is centered on the cultivation, methods of identification, antimicrobial susceptibility testing, serological diagnosis and correlation to disease states. Prerequisites: BIOL 2211K, admission into the MLT Program or permission of the program director. Corequisite: MLTS 2101W. Offered: Spring, Fall; online and traditional options.

MLTS 2102L. Medical Laboratory Technology IV Lab. (1 Credit)
The laboratory component is utilized to develop skills required to perform routine and special stains. Students will identify and provide clinical correlation of routine and special stains. Prerequisites: Admission into the Histologic Technician program. Corequisite: MLTS 2102W. Offered: Fall, Spring.

MLTS 2102W. Histology IV. (2 Credits)
This course emphasizes the fundamentals and clinical significance of routine and special histological staining procedures. The student will differentiate between different classes of special stains performed in a histology laboratory. Prerequisite: Admission into the Histologic Technician program. Corequisite: MLTS 2102W. Offered: Fall and Spring.

MLTS 2103L. Histology VII. (1 Credit)
The course is the practicum designed to enhance and refine techniques taught in the first semester. Students are required to complete at least 300 clinical hours in an approved affiliate histology laboratory. Orientation to department and institutional policies and procedures is required. Prerequisites: MLTS 1300, MLTS 1310L, MLTS 1310W, MLTS 1320L, MLTS 1320W, MLTS 1330. Offered: Spring, Fall.

MLTS 2104L. Histology VIII. (2 Credits)
A study of immunohistochemistry procedures and interpretations. Prerequisites: MLTS 1300, MLTS 1310L, MLTS 1310W, MLTS 1320L, MLTS 1320W, MLTS 1330. Offered: Spring, Summer.

MLTS 2111K. Medical Laboratory Technology IV Lab. (1 Credit)
The laboratory component of the course is utilized to develop skills and competencies required to perform routine and special histology procedures. Prerequisites: Admission into the Histologic Technician program. Corequisite: MLTS 2111K. Offered: Spring; online and traditional options.
MLTS 2020W. Medical Laboratory Technology IV. (3 Credits)
An in-depth study of analytical techniques utilized to measure the biochemical entities of blood and various body fluids. The correlation of test results to human physiology and pathology is emphasized. Prerequisite: CHEM 1212K. Corequisite: MLTS 2020L. Offered: Summer; online and traditional options.

MLTS 2630. Medical Laboratory Technology Externship. (15 Credits)
Students are introduced to the clinical laboratory in an affiliate clinical laboratory setting. The students receive an orientation to each department and an introduction to hospital policies and procedures. Each student rotates through appropriate departments and is allowed to demonstrate and develop their skills and competencies in blood bank, hematology, microbiology, chemistry, phlebotomy and body fluid analysis under the supervision of the laboratory staff instructor. Prerequisites: MLTS 1160, MLTS 1161, MLTS 1182, MLTS 2010, MLTS 2020. Corequisite: MLTS 2670. Offered: Fall.

MLTS 2670. Seminars in Medical Laboratory Science. (1 Credit)
Seminar presentations on various topics related to medical laboratory science (topic reviews for board exams, professionalism, laboratory information systems, case presentations and/or other). Corequisite: MLTS 2630. Offered: Fall; online option only.