

*Program in Clinical Laboratory Science
Clinical Course Descriptions*

Me 450: Clinical Microbiology (6)

Marsha Brandom, MT(ASCP)

Isolation and identification of microorganisms, including bacteria, viruses, rickettsiae, parasites and fungi, that cause disease; clinical interpretation of tests and correlation of results with patient condition. Follows general college microbiology and/or pathogenic microbiology.

Me 455: Clinical Chemistry (6)

Lori Koepsel, MT(ASCP), CLS(NCA)

Quantitation of biochemicals correlating to patient condition; analytical techniques; manual test procedures; operation, troubleshooting and validation of results from sophisticated instrumentation using computer hardware and software. Follows a minimum of 16 semester hours college chemistry, including coursework in biologic chemistry and some quantitative lab experience.

Me 460: Clinical Hematology (6)

Anne Klugman, MT(ASCP)SH

Study of blood and blood cell abnormalities, with correlation of instrument and microscope findings to patient condition; evaluation of blood clotting and coagulation mechanisms, including the monitoring of anticoagulant therapy; chemical analysis and identification of cells or formed elements in bone marrow, spinal fluid, urine, and other fluids.

Me 465: Immunohematology (4)

Elizabeth Jones, MT(ASCP)BB

Analysis of the relationships between donor blood components and blood recipients; introduction to all red blood cell antigen systems; antigen and antibody detection; prevention of transfusion incompatibilities; assessment of patient transfusion-related occurrences.

Me 470: Clinical Immunology (4) Dana Van Laeys, MT(ASCP), CLS(NCA)CLSpMB, MA

Immunofluorescence, enzyme immunoassay, dilutions, molecular diagnostics, flow cytometry, radioimmunoassay and other immunochemistry, using sophisticated instrumentation with current computer hardware and software.

Me 475: Topics in CLS/MT I (2)

Jane M. Rachel, MT(ASCP), MA

Clinical workshops on a variety of topics including: general laboratory skills, research and development, phlebotomy, parasitology, and mycology.

Me 480: Topics in CLS/MT II (2)

Jane M. Rachel, MT(ASCP), MA

Professional seminars, guest lectures, and planned visits with other health professionals; topics include clinical case studies, medical ethics issues, hospital and laboratory management, laboratory information systems, communication, education and career entry and options. Course culminates in a Professional Topics journal with articles chosen, researched, written and produced by students.