
CLS Clinical Laboratory Sciences

CLS 500 INTEGRATIVE CARE FOR HEALTH SCIENCES. (1-3)

Integrative care involves using the best possible treatments from both complementary/alternative and allopathic medicine, based on the patient's individual needs and condition. The selection of health care providers should be based on good science and this course will introduce students to complementary and alternative health care providers and the practices and beliefs of these practices as well as the scientific evidence in support of these practices. The course integrates successes from both worlds and describe the safest, least invasive, most cost-effective approach while incorporating a holistic understanding of the individual. May be repeated to a maximum of 3 credits (1 credit didactic and up to two credits experiential/research). (Same as AT 500, HS 500, CNU 500, CD 500, PAS 500.)

CLS 832 BASIC CLINICAL CHEMISTRY. (1)

The study of the theory and practice of clinical chemistry laboratory testing, including quality control, instrumentation principles, problem-solving, and appreciation of accuracy of and confidentiality for patient laboratory findings. Prereq: Admission into the Clinical Laboratory Sciences Professional Program or consent of instructor.

CLS 833 BASIC HEMATOLOGY. (1)

The theory and practice of clinical hematology laboratory testing, including manual and automated procedures, instrumentation principles, quality assurance, and problem-solving. Hematopoiesis, hemostasis, and blood cell function are discussed as they relate to clinical laboratory practice. Special emphasis is placed on the relationship of clinical hematology testing to pathophysiology and on the acquisition of valid test results. Prereq: Admission into the Clinical Laboratory Sciences Program or consent of instructor.

CLS 838 BASIC IMMUNOHEMATOLOGY. (1)

An introduction to the principles and practice of blood banking follows a review of classic genetics and fundamentals of immunology. The course includes didactic instruction in blood group systems; donor selection and component preparation; antibody detection and identification and compatibility testing. Prereq: Admission to the Clinical Laboratory Sciences Program and CLS 835 (or equivalent) or consent of instructor.

CLS 851 BASIC CLINICAL MICROBIOLOGY. (1)

The study of medically significant microbiology, including commensal flora, normal flora and pathogens. Lectures also cover microbial physiology, interactions between host and pathogenic microorganisms, and the clinical and epidemiological consequences of these interactions. Prereq: Admission to the Clinical Laboratory Sciences Program.