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 501 SEMINAR IN ADVANCED HEMATOLOGY. (2)
Study of the biochemical aspects of blood cell physiology and kinetics as applied to practice in the clinical hematology laboratory and
a review of current related literature. This course is designed for practicing clinical laboratorians or medical technologists who are pursuing
a graduate degree. Prereq: BCH 401G or equivalent and consent of instructor.

CLS 520 REPRODUCTIVE LABORATORY SCIENCE. (3)
This is a course designed to educate students in basic theories, procedures and quality assurance concepts of assisted reproduction.
It will consist of two lectures per week and a limited number of three-hour laboratories. Computer-assisted instruction and video-tapes
will also be used. Prereq: Admission to the professional CLS program; or a baccalaureate degree with CLS certification; or consent of
instructor.

CLS 610 ETHICS IN CLINICAL SCIENCES RESEARCH. (1)
Students will examine ethical issues in biomedical research using a case-study approach. Representative issues addressed may include
data selection and retention, plagiarism, scientific review of grants and manuscripts, scientific misconduct, and informed consent. Prereq:
Graduate student status. (Same as CD/CNU/PT/RAS 610.)

CLS 816 HISTOTECHNOLOGY II. (3)
The study of principles and applications of microtomy, frozen sectioning and some special staining techniques.

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.