CLINICAL LABORATORY SCIENCE (CLS)

CLS 3305. Introduction to Clinical Laboratory Techniques.
Clinical Laboratory Science students will be introduced to techniques, procedures, and instrumentation commonly used in clinical laboratories. (WI).
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Introduction to Clinical Laboratory Techniques

CLS 3323. Clinical Microscopy and Analysis of Body Fluids.
Study of body fluids present in the various anatomical compartments of the body as they differ in health and disease. Physical and chemical tests, and microscopic examination of select body fluids are performed. about Clinical Microscopy and Analysis of Body Fluids
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Clinical Microscopy and Analysis of Body Fluids

CLS 3326. Medical Parasitology.
This course includes lecture and laboratory instruction in medically important parasites producing disease in humans with emphasis on epidemiology, life cycles, identifying characteristics, and pathology of these parasites.
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Grade Mode: Standard Letter
about Medical Parasitology

CLS 3410. Clinical Chemistry I.
Designed to acquaint the clinical laboratory science student with some of the concepts, techniques, procedures, and instrumentation used in clinical chemistry.
3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.
Grade Mode: Standard Letter
about Clinical Chemistry I

CLS 3412. Hematology/Coagulation I.
Qualitative and quantitative evaluation of formed elements of the blood and studies in coagulation abnormalities.
3 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Hematology/Coagulation I

CLS 3424. Clinical Immunology.
Principles of immune response and underlying immunologic procedures of diagnostic value are discussed. Lectures and laboratory emphasize detection, identification, nature of antigens and antibodies, and the antigen-antibody reactions encountered.
4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Clinical Immunology

CLS 4225. Laboratory Management and Supervision.
Lectures and discussions of general principles of management and supervision of the clinical laboratory and its personnel. (WI).
2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter
about Laboratory Management and Supervision

CLS 4227. Introduction to Clinical Practice.
Discussion of professional and technical requirements for clinical laboratory science students and their role and responsibilities as a unit of the health care team. (WI).
2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter
about Introduction to Clinical Practice

CLS 4318. Hematology II.
In-depth study of theoretical and practical aspects of clinical hematology and hemostasis with emphasis on principles, methodology, problems encountered, and clinical applications.
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Hematology II

CLS 4321. Directed Study in Clinical Laboratory Science.
An indepth study of a narrow range of topics or a related problem in the clinical laboratory sciences. Topics to be announced; may be repeated for credit when topics vary.
3 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat ProcessingLab Required
Grade Mode: Credit/No Credit
about Directed Study in Clinical Laboratory Science

CLS 4340. Clinical Microbiology II.
Study of medically important fungi, viruses, chlamydiae, rickettsiae, and advanced topics in clinical microbiology. Automated identification of microorganisms, database management, and epidemiologic techniques will be discussed.
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Clinical Microbiology II
CLS 4341. Molecular Diagnostics.
This course consists of an introduction to the principles, methodologies and applications of molecular diagnostic procedures used in clinical laboratories. Emphasis is placed on the procedures used in the identification of infectious agents that cause human disease, in the diagnosis of inherited diseases, and the diagnosis of cancer. about Molecular Diagnostics
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Molecular Diagnostics

Directed independent research covering the principles of research and development of clinical laboratory methodology. (WI).
about Research Methods in Clinical Laboratory Science
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required|Writing Intensive
Grade Mode: Standard Letter
about Research Methods in Clinical Laboratory Science

CLS 4370. Clinical Chemistry II.
A study of the theoretical and practical aspects of clinical chemistry. Manual and automated laboratory procedures for quantitative analysis of various body fluids.
about Clinical Chemistry II
3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Clinical Chemistry II

CLS 4440. Clinical Microbiology I.
Study of pathogenic and nonpathogenic bacteria, fungi, and viruses with special emphasis on methods of isolation from body fluids, cultural and differential biochemical characteristics of body pathogens.
about Clinical Microbiology I
4 Credit Hours. 3 Lecture Contact Hours. 6 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Clinical Microbiology I

CLS 4460. Immunohematology.
Study of theoretical and practical consideration of major blood groups with emphasis on grouping and typing, antibody detection and identification, compatibility testing and component therapy in blood transfusion service.
about Immunohematology
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter
about Immunohematology

CLS 4463. CLS Clinical Practice I.
Structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory. about CLS Clinical Practice I
4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.
Grade Mode: Standard Letter
about CLS Clinical Practice I

CLS 4464. CLS Clinical Practice II.
Continuation of Clinical Laboratory Science Practice I; structured clinical experience assigned on an individual basis for observation, study and practical application of techniques and methodology in the clinical laboratory.
about CLS Clinical Practice II
4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.
Grade Mode: Standard Letter
about CLS Clinical Practice II