CLSC 3102 Essentials Laboratory for Clinical Laboratory Science
1 Semester Credit Hour (1 Lab Hour)
APPLICATION OF ESSENTIAL PRACTICES FOR CLINICAL LABORATORY
SCIENCE.
Co-requisite: SMTE 0092.

CLSC 3200 Essentials for Applied Laboratory Sciences
2 Semester Credit Hours (1 Lecture Hour)
INTRODUCTION TO GENERAL LABORATORY PROCEDURES,
LABORATORY SAFETY AND REGULATIONS, QUALITY ASSURANCE,
PROFESSIONAL ETHICS, SPECIMEN ACQUISITION, SAMPLE
MAINTENANCE AND MICROSCOPY. INCLUDES AN INTRODUCTION TO
THE HEALTH CARE, PUBLIC HEALTH AND CRIMINAL INVESTIGATION
SYSTEM.
Prerequisite: BIOL 1407 and CHEM 1412.

CLSC 4120 Hemostasis
1 Semester Credit Hour (1 Lecture Hour)
STUDIES OF BLOOD COAGULATION WITH AN EMPHASIS ON THE
INTERACTION OF BLOOD VESSELS, PLATELETS, AND CERTAIN PLASMA
PROTEINS. DISORDERS OF HEMOSTASIS WILL BE DISCUSSED ALONG
WITH DIAGNOSTIC TESTING.

CLSC 4182 Seminar – Clinical Correlations
1 Semester Credit Hour (1 Lecture Hour)
INFORMAL LECTURES COVERING THE NEWEST DEVELOPMENTS IN
LABORATORY MEDICINE. INCLUDES DISCUSSION OF THE PATIENT'S
CLINICAL LABORATORY RESULTS, SELECTION AND INTERPRETATION OF
LABORATORY TESTS, AND PRESENTATION OF RESEARCH.

CLSC 4200 Professional Skills for Clinical Laboratory Scientists
2 Semester Credit Hours (2 Lecture Hours)
STUDY OF THE ROLE OF THE MEDICAL LABORATORY PROFESSIONAL
IN THE HEALTH CARE SYSTEM. INCLUDES PROFESSIONAL ETHICS,
LEGAL RESPONSIBILITY, MEDICAL LABORATORY MANAGEMENT,
INSTRUCTIONAL METHODS, EVALUATION OF CLINICAL LABORATORY
METHODS, MEDICAL LABORATORY INSTRUMENT SELECTION, CLINICAL
RESEARCH AND CURRENT PROFESSIONAL TOPICS. REQUIRES
PERMISSION OF INSTRUCTOR AND APPLICATION.

CLSC 4280 Introduction to the Clinical Laboratory Profession
2 Semester Credit Hours (2 Lecture Hours)
STUDIES OF THE LATEST INSTRUMENTATION, INSTRUMENT
SELECTION, BASIC RESEARCH, QUALITY ASSURANCE AND STATISTICS
USED IN THE CLINICAL LABORATORY.
Prerequisite: (CLSC 3200, CHEM 4401 and MATH 1442).

CLSC 4297 Professional Practicum I
2 Semester Credit Hours (2 Lecture Hours)
SUPERVISED LEARNING EXPERIENCE IN SELECTED DEPARTMENTS OF
THE CLINICAL LABORATORIES.

CLSC 4325 Clinical Chemistry I
3 Semester Credit Hours (3 Lecture Hours)
PRINCIPLES AND PRACTICE OF PROCEDURES FOUND IN GENERAL
CLINICAL CHEMISTRY. INCLUDES THE METHODOLOGY OF DIAGNOSTIC
TESTS AND NORMAL AND ABNORMAL HUMAN PHYSIOLOGY AS
APPLIED TO DIAGNOSIS OF PATHOLOGICAL CONDITIONS.
Prerequisite: CHEM 4401.
Co-requisite: SMTE 0092.

CLSC 4326 Clinical Chemistry II
3 Semester Credit Hours (3 Lecture Hours)
CONTINUATION OF CLSC 4325 - CLINICAL CHEMISTRY I. EMPHASIS ON
ADVANCED CLINICAL CHEMISTRY TOPICS AND PROCEDURES.
Prerequisite: CLSC 4325.

CLSC 4370 Clinical Microbiology I
3 Semester Credit Hours (3 Lecture Hours)
LECTURE AND LABORATORY STUDIES OF COMMON PATHOGENIC
BACTERIA. EMPHASIS IS ON STAINING, CULTURAL, AND DIFFERENTIAL
BIOCHEMICAL CHARACTERISTICS, METHODS OF ISOLATION FROM
BODY FLUIDS AND SUSCEPTIBILITY TO THERAPEUTIC AGENTS.
Prerequisite: BIOL 2421.
Co-requisite: SMTE 0092.

CLSC 4371 Clinical Microbiology II
3 Semester Credit Hours (2 Lecture Hours, 3 Lab Hours)
LECTURE AND LABORATORY STUDIES OF THE NEWEST DEVELOPMENT
IN LABORATORY DIAGNOSTIC MEDICINE. INCLUDES ADVANCED
CLINICAL CHEMISTRY, IMMUNOLOGY AND MOLECULAR DIAGNOSTIC
PROCEDURES.
Prerequisite: CLSC 4325 and BIMS 4406 or BIOL 4406 and CHEM 4401.

CLSC 4420 Hematology
4 Semester Credit Hours (4 Lecture Hours)
STUDIES OF THE FORMATION, FUNCTION AND IDENTIFYING
CHARACTERISTICS OF THE CELLULAR ELEMENTS OF HUMAN BLOOD
AND OTHER BODY FLUIDS IN HEALTH AND DISEASED STATES AND
LABORATORY STUDIES ON BLOOD COAGULATION. LECTURE AND
LABORATORY EMPHASIZE THE ENUMERATION, MORPHOLOGY AND
STAINING CHARACTERISTICS OF NORMAL AND ABNORMAL CELLS AND
HEMOSTASIS.
Prerequisite: BIOL 2416 and CHEM 4401.
Co-requisite: SMTE 0092.

CLSC 4430 Clinical Immunology
4 Semester Credit Hours (4 Lecture Hours)
THEORETICAL ASPECTS OF THE IMMUNE RESPONSE AND ITS
RELATIONSHIP TO THE DIAGNOSIS OF DISEASE AND CLINICAL
IMMUNOHEMATOLOGY. LECTURE AND LABORATORY STRESS
THE DETECTION, IDENTIFICATION AND CHARACTERIZATION OF
ANTIBODIES, BLOOD GROUPING AND TYPING, COMPATIBILITY TESTING,
BLOOD COMPONENT THERAPY, HLA TESTING AND DIAGNOSIS OF
PATHOLOGICAL CONDITIONS.
Prerequisite: BIMS 4406 or BIOL 4406.
Co-requisite: SMTE 0092.

CLSC 4598 Professional Practicum II
5 Semester Credit Hours (5 Lecture Hours)
CONTINUATION OF CLSC 4297 - PROFESSIONAL PRACTICUM I.
SUPERVISED LEARNING EXPERIENCE IN SELECTED DEPARTMENTS OF
THE CLINICAL LABORATORIES.
Prerequisite: CLSC 4297.
CLSC 4599  Professional Practicum III
5 Semester Credit Hours (5 Lecture Hours)
CONTINUATION OF CLSC 4598 - PROFESSIONAL PRACTICUM II.
SUPERVISED LEARNING EXPERIENCE IN SELECTED DEPARTMENTS OF
THE CLINICAL LABORATORIES.
Prerequisite: CLSC 4598.