

General Education

Foundations: (13 Credits)

Oral Communication (3 Credits)

Written Communication (3 Credits)

ENGL 1200 College Composition

Quantitative Reasoning (4 Credits)

MATH2410 Analytical Geometry and Calculus I

Technological Literacy (3 Credits)

Discoveries: (Credits 29)

Art/Humanities (9 Credits)

Social Sciences (9 Credits)

ANTH 1000 Introduction to Anthropology

Natural Sciences & Technology (11 Credits)

CHEM 1108 General Chemistry I

MATH 2420 Analytical Geometry and Calculus II

Program Elective: (4 Credits)

CHEM 1128 General Chemistry II

Competencies:

Quantitative Applications

CHEM 1108 General Chemistry I

Applied Methodologies

CHEM 1128 General Chemistry II

Intercultural Fluency

Ethical Reasoning

Information Literacy

CHEM 3010 Chemistry Career and Professional Development II

Writing Intensive

CHEM 2205 Organic Chemistry I Laboratory

Writing Intensive

CHEM 4605 Biochemistry I Laboratory

Keystone Experience

CHEM 4900 Chemistry Capstone

Program Requirements

Required Major Courses: (46-48 Credits)

PHYS 1500/10 General Physics I or PHYS 2500/10 University Physics I

PHYS 1600/10 General Physics II or PHYS 2600/10 University Physics II

CHEM 2010 Chemistry Career and Professional Development I

CHEM 2200 Organic Chemistry I

CHEM 2205 Organic Chemistry I Laboratory

CHEM 2250 Organic Chemistry II

CHEM 2255 Organic Chemistry II Laboratory OR CHEM 4115
Advanced Chemistry Laboratory

CHEM 3010 Chemistry Career and Professional Development II

CHEM 3300 Inorganic Chemistry I

CHEM 3305 Inorganic Chemistry I Laboratory OR CHEM 3315
Intermediate Chemistry I Laboratory

CHEM 3400 Quantitative Chemical Analysis

CHEM 3405 Quantitative Chemical Analysis Laboratory OR
CHEM 3415 Intermediate Chemistry II Laboratory

CHEM 3450 Instrumental Analysis

CHEM 3455 Instrumental Methods Laboratory

CHEM 4500 Physical Chemistry I

CHEM 4505 Physical Chemistry I Laboratory OR CHEM 4515
Intermediate Chemistry III Laboratory

CHEM 4600 Biochemistry I

CHEM 4605 Biochemistry I Laboratory

CHEM 4700 Forensic Analysis

CHEM 4900 Chemistry Capstone

Required Concentration Courses: (25 Credits)

BIOL 1900 Intro to Cell and Molecular Biology

BIOL 2202 Genetics

BIOL 3330 Cell Biology

BIOL 4320 Molecular Biology

CRJ 1050 Intro to Forensic Science

CRJ 4850 Forensic Law

STAT 2020 Elements of Statistics

Free Electives: (6 Credits)

Suggested Four Year Course Sequence

Year 1

Fall Semester

BIOL1900 Intro Cell & Molec Biology
CHEM1108 General Chemistry I
ENGL1200 College Composition
MATH1410 Pre-calculus*

Spring Semester

BIOL2202 Genetics
CHEM1128 General Chemistry II
MATH2410 Analyt Geom & Calculus I
GenEd Foundation- Oral Communication
GenEd Foundation- Tech Literacy

Year 3

Fall Semester

BIOL3330 Cell Biology
CHEM3400 Quant Chem Analysis
CHEM3405 Quant Chem Analys. Lab OR
CHEM3415 Int Chemistry Lab II
STAT2020 Elements of Statistics
GenEd Discoveries
GenEd Discoveries

Spring Semester

CHEM3010 Chem Car Prof Dev II
CHEM3450 Instrumental Analysis
CHEM3455 Instrumental Analysis Lab
CHEM4500 Physical Chemistry I
CHEM4505 Physical Chemistry I Lab OR
CHEM4515 Int Chemistry Lab III
GenEd Discoveries
Minor Requirement/Elective

NOTE: *MATH1410 Pre-calculus is an elective course for students not prepared to take MATH2410 in semester 1. If a student is prepared for MATH2410, they can take that in semester 1.

Year 2

Fall Semester

CHEM2200 Organic Chemistry I
CHEM2205 Organic Chemistry I Lab
CHEM2010 Chem Car Prof Dev I
MATH2420 Analyt Geom & Calculus II
PHYS1500/2500 Physics I
PHYS1510/2510 Physics I Lab
GenEd Discoveries

Spring Semester

CHEM2250 Organic Chemistry II
CHEM2255 Organic Chemistry II Lab OR CHEM4115 Adv Chem Lab
CHEM3300 Inorganic Chemistry I
CHEM3305 Inorg Chem I Lab OR
CHEM3315 Interm Chem Lab I
CRJ1050 Intro Forensic Science
PHYS2500/2600 Physics II
PHYS2510/2610 Physics II Lab

Year 4

Fall Semester

ANTH1000 Intro to Anthropology
BIOL4320 Molecular Biology
CHEM4600 Biochemistry I
CHEM4605 Biochemistry I Lab
Research or Advanced Lab (as needed)
Minor Requirements/Elective
GenEd Discoveries

Spring Semester

CHEM4700 Forensic Analysis
CHEM4900 Chemistry Capstone
CRJ4850 Forensic Law
Research or Advanced Lab (as needed)
Minor Requirements/Elective
General Education Discoveries

