

CHEMISTRY

NAME	I.D.#	Expected Grad Date	<u>B.S.</u> Degree
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General Education Requirements

- 3 THEO 101 Christian Formation
- 3 BLIT 202 Christian Scriptures I
- 3 BLIT 303 Christian Scriptures II
- 3 THEO 404 Christian Faith
- 3 ENGL 109 College Writing I
- 3 ENGL 207 College Writing II (CSE)
- 3 COMM 105 Fundamentals of Communication
- 3 FINA 101 Introduction to Fine Arts
- 3 HIST 200 Western Civilization
- 3 LIT 205 Studies in Literature
- 3 Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, or SOCY 120
- 0-8 Elementary Foreign Language I & II **OR** approved International Culture Courses

- 3-4 BIOL 201 General Biological Science or approved biological lab science

- 2-3 PHED 190 Wellness or PHED 126 Nutrition
- 1 PHED 191 Applied Fitness

Major: 42-51 hours

- 4 CHEM 103 General Chemistry I
- 4 CHEM 104 General Chemistry II
- 4 CHEM 301 Quantitative Analysis
- 5 CHEM 311 Organic Chemistry I
- 5 CHEM 312 Organic Chemistry II
- 4 CHEM 482 **OR** 493 Physical Chemistry
- 1 CHEM 495 Chemistry Seminar

Plus completion of one of the concentrations at the right:

Highly Recommended Supporting course:

- 3 CSIS 331 Computing Fdns. for Scientists

A: GENERAL CONCENTRATION

- 3 CHEM 320 Inorganic Chemistry
- 4 CHEM 335 Biochemistry
- 4 CHEM 410 Instrumental Analysis
- 4 CHEM 482 Physical Chemistry/Thermodynamics **OR** CHEM 493 Physical Chemistry/Kinetics

Required Supporting Courses:

- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 4 MATH 261 Calculus III
- 3-4 MATH 241 Statistics **OR** MATH 351 Linear Algebra **OR** MATH 357 Differential Equations
- 4 PHYS 201 General Physics I
- 4 PHYS 202 General Physics II

B: BIOCHEMISTRY CONCENTRATION

- 4 BIOL 125 Biology I
- 4 BIOL 319 Genetics
- 4 BIOL 484 Molecular and Cell Biology
- 4 CHEM 335 Biochemistry
- 4 CHEM 436 Advanced Biochemistry

And one of the following:

- 4 BIOL 356 Microbiology **OR** CHEM 410 Instrumental Analysis **OR** CHEM 482 Physical Chemistry/Thermodynamics **OR** CHEM 493 Physical Chemistry/Kinetics

Required Supporting courses:

- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 3-4 MATH 241 Statistics **OR** MATH 261 Calculus III **OR** MATH 351 Linear Algebra
- 8 One Year of Physics

C: FORENSICS CONCENTRATION

- 4 BIOL 125 Biology I
- 4 BIOL 380 Toxicology
- 4 CHEM 335 Biochemistry
- 3 CHEM 340 Drug Chemistry
- 3 CHEM 375 Optical/Electron Microscopy
- 4 CHEM 410 Instrumental Analysis

Required Supporting courses:

- 3 CJUS 243 Intro to Criminal Justice
- 3 CJUS 293 Criminal Law
- 3 CJUS 360 Criminal Procedure
- 3 CJUS 410 Crime Scene Investigation
- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 4 MATH 241 Statistics
- 4 PHYS 201 General Physics I
- 4 PHYS 202 General Physics II