

2025-2026 Academic Year

Requirements Effective Fall 2023

Min. Grad. Req : 120 Hrs, 30 UD Hrs., 2.0 GPA Institutional & Cumulative

Reviewed by: _____

Date: _____

(B.S.) CHEMISTRY

Name & Student ID #

Expected Graduation Date:

General Education Requirements

- 3 THEO 110 Intro to Christianity
 - 3 BLIT 210 Christian Scriptures
 - 3 CMIN 310 Christian Living
 - 2-3 Approved Stewardship Course* _____
 - 3 ENGL 109 College Writing I
 - 3 ENGL 207 College Writing II (CSE)
 - 3 COMM 105 Fundamentals of Communication
 - 3 HIST 200 Western Civilization
 - 3 Approved Social Science Course* _____
 - 6 Approved Humanities Courses*
- Select 3 hours from two different areas:**
Fine Arts, Literature, Philosophy, or SPAN 212
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- 3-8 Elementary Foreign Language I & II (SPAN 111/112 or FREN 101/102)
OR an approved Intercultural Understanding course*
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* See olivet.edu/registrar for an approved list of courses

- Students completing a minor must complete a minimum of 6 unique hours between major and minor.
- Students pursuing a double major or greater must complete a minimum of 20 unique hours (excludes supporting courses)

Major: 32-36 Hours (2.0 GPA Required in major)

- 4 BIOL 125 Biology I (GER: BIOL SCI)
- 4 CHEM 103 General Chemistry I (GER: PHYS SCI)
- 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 Physical Chemistry Survey
- 1-2 CHEM 495 Seminar in Chemistry (take each year)
_____ Year 1 _____ Year 3
_____ Year 2 _____ Year 4
- 1-4 CHEM 498 Research in Chemistry

- Plus completion of one concentration.

A. General Concentration (38-39 Hours)

- 3 CHEM 320 Inorganic Chemistry
- 4 CHEM 335 Biochemistry
- 4 CHEM 410 Instrumental Analysis
- 4 CHEM 493 Advanced Physical Chemistry

Required Supporting Courses

- 4 MATH 147 Calculus I (GER: MATH)
- 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
- 4 PHYS 202 General Physics II

B. Biochemistry Concentration (36 Hours)

- 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 493 Advanced Physical Chemistry

Required Supporting Courses

- 4 MATH 147 Calculus I (GER: MATH)
- 4 MATH 241 Statistics
- 8 One year of Physics _____ Sem 1 _____ Sem 2

C. Forensics Concentration (43 Hours)

- 4 BIOL 380 Toxicology
- 4 CHEM 335 Biochemistry
- 3 CHEM 340 Drug Chemistry
- 4 CHEM 410 Instrumental Analysis

Required Supporting Courses

- 3 CJUS 243 Introduction to Criminal Justice
- 3 CJUS 343 Criminal Law
- 3 CJUS 360 Criminal Procedure
- 3 CJUS 410 Crime Scene Investigation
- 4 MATH 147 Calculus I (GER: MATH)
- 4 MATH 241 Statistics (GER: MATH)
- 4 PHYS 201 General Physics I
- 4 PHYS 202 General Physics II

Recommended Supporting Courses

- 4 MATH 148 Calculus II

See reverse for additional requirements

D. Earth and Environmental Chemistry Concentration

(39-40 Hours)

- 3 CHEM 320 Inorganic Chemistry
- 4 CHEM 410 Instrument Analysis
- 4 ESS 105 Dynamic Earth
- 4 ESS 302 Mineral Science
- 4 ESS 385 Earth and Environmental Chemistry

Choose two of the following:

- 3 ESS 109 Earth's Oceans and Atmosphere
- 3 ESS 332 Water Resource Issues
- 4 AuSable Institute: CHEM 332 (Environmental Chemistry)

Required Supporting Courses

- 4 MATH 147 Calculus I (GER: MATH)
- 2 MATH 241 Statistics (GER: MATH)
- 8 One year of Physics _____ Sem 1 _____ Sem 2

Recommended Supporting Courses

- 4 BIOL 380 Toxicology
- 0.5 ENVI 395 Seminar in Env Science