

University of Indianapolis – Shaheen College of Arts & Sciences
2025-2026 Curriculum Guide for Chemistry Majors (ACHM)
Associate in Science

General Education Requirements:

- **ENGL 101** Intro to College Writing (3)
- **REL ELEC** Religion Elective (3)
- **LIB ELEC** Liberal Arts Electives (5)
- **INTD 101** New Student Experience (1) [day students only]

Semester I

- **CHEM 150** General Chemistry I (3) and **CHEM 151** General Chemistry Lab I (1)
- **MATH 180** College Algebra and Trigonometry (4)

Semester II

- **CHEM 160** General Chemistry II (3) and **CHEM 161** General Chemistry Lab II (1)
- **BIOL 165** Introduction to Cell Biology (4)

Semester III

- **CHEM 250** Organic Chemistry I (3) and **CHEM 251** Organic Chemistry Lab I (2)
- **CHEM 310** Analytical Chemistry (5)
- **PHYS 150** General Physics I (4)

Semester IV

- **CHEM 260** Organic Chemistry II (3) and **CHEM 261** Organic Chemistry Lab II (2)
- **MATH 245** Statistics for the Sciences (4)

Select one of the following:

- **COMP 150** Microcomputer Applications (3)
- **CSCI 152** Pascal Programming (3)
- **CSCI 132** Software Applications for the Sciences (2)

Select at least one of the following:

- **CHEM 230** Environmental Chemistry (4)
- **CHEM 280** Intermediate Inorganic Chemistry (4)
- **CHEM 320** Biochemistry I (3)
- **CHEM 370** Physical Chemistry: Thermodynamics and Kinetics (3) **AND**
- **CHEM 375** Thermodynamics Laboratory (1) [capstone]
- **CHEM 380** Physical Chemistry: Quantum Mechanics and Spectroscopy (3) **AND**
- **CHEM 385** Quantum Laboratory (1)
(Physical Chemistry courses require Calculus and Physics prerequisites - consult catalog for details)
- **CHEM 400** Instrumental Methods (4)

All CHEM courses require a grade of C or above, Required support courses require a grade of C- or above

The Associate in Science Degree requires a minimum of 60 hours. Courses beyond those listed above will be needed to meet this requirement.

REMEMBER: If you have any questions about the Chemistry Major and its requirements, contact Dr. David Styers-Barnett; 317-788-2061; Lilly Science Hall, Room 332D) or your academic advisor. Courses and requirements sometimes change so keep in contact with your advisor.