



SIENA HEIGHTS UNIVERSITY CHEMISTRY

Siena Heights University • 1247 East Siena Heights Drive • Adrian, MI 49221

www.sienaheights.edu

Chemistry

A Bachelor of Science degree in Chemistry from Siena Heights University will provide preparation for either entrance into the chemical workforce or for post-graduate education. Our emphasis on a broad-based approach to chemical principles, coupled with an introduction to chemical research, has produced graduates who have successfully made the transition from student to professional.

About the Program

The Chemistry program at Siena Heights University provides a solid grounding in all the areas of modern chemistry. Our graduates have either successfully entered the work force, or have gone on to attend graduate and professional schools. Our emphasis is on producing chemistry graduates that have a firm grasp of the basic principles of chemical science and who are ready for a wide variety of possible career paths.

Coursework is complemented by two other experiences that help to make our graduates more skilled and competent chemists. The first is an opportunity to participate in an internship at a local chemistry company. Here, students get a chance to see first-hand what it means to be a professional chemist. In addition, students become involved in on-going research projects, and are often given their own projects to complete. The second experience is the completion of a chemistry research project during the junior and senior years.

Why Siena?

"I want to help my students become knowledgeable, productive scientists. This means more than just teaching them a set of interconnected facts. My goal is to place this material in a larger context that emphasizes not only the beauty and creativity of science, but also stresses the ethical dimensions that all scientific endeavors require. I hope that when my students are ready to leave Siena Heights, they are prepared to live meaningful lives, and have successful and exciting scientific careers."



— Anthony Scioly, Professor of Chemistry

Bachelor of Science Degree Major

Chemistry Requirements

#CHE 141 General Chemistry I.....	4
CHE 142 General Chemistry II.....	4
CHE 241 Organic Chemistry I.....	4
CHE 242 Organic Chemistry II	4
CHE 341 Physical Chemistry I	4
CHE 342 Physical Chemistry II	4
CHE 343 Physical Chemistry Lab	1
CHE 350 Analytical Chemistry	4
CHE 395 Junior Seminar I	1
CHE 396 Junior Seminar II	1
CHE 441 Instrumental Analysis	4
CHE 495 Senior Seminar I	1
CHE 496 Senior Seminar II	1
CHE ___ Approved Chemistry Elective	3

Total for Major40 semester hours

Requirements Outside of Major

*MAT174 Data Analysis and Statistics	3
#MAT 181 Calculus with Analytic Geometry I	4
MAT 182 Calculus with Analytic Geometry II	4
PHY 261 Physics I (Calculus Based)	4
PHY 262 Physics II (Calculus Based)	4
*TSC 101 Fundamentals of Speech Communication	3

Liberal Arts31-33 semester hours

Total Requirements

Outside of Major	53-55 semester hours
E. General Electives	25-27 semester hours
F. Total for Degree	120 semester hours

NOTE: Chemistry majors must earn a 2.1 GPA in their major and must earn a "C" or better in all required biology courses.

NOTE: Chemistry majors must complete a 16 hour residency and 12 semester hours of Siena Heights chemistry courses at the 200-level or higher and the Junior and Senior seminar series (CHE395/396/495/496).

NOTE: Students seeking teacher certification must take CHE 454 Biochemistry as their required chemistry elective.

NOTE: Students seeking secondary certification in teaching must also take NSC110 Earth Science.

NOTE: Students seeking certification must also complete the appropriate science methods course: BIO 372 (Secondary Science Methods) from the Professional Education Sequence.

* Indicates division requirements

Chemistry Careers

Chemistry is known as the "Central Science" because of its important role in so many fields. Some of the careers where knowledge of chemistry is used include:

- Agriculture
- Art preservation and restoration
- Catalysis
- Education
- Information systems
- Sales and marketing
- Consulting
- Customer products
- Environmental services
- Food and flavor development
- Forensic science
- Waste management
- Materials science
- Oil and petroleum
- Paper and pulp
- Pharmaceuticals
- Polymers
- Science writing
- Textiles



For more information about the Chemistry program at Siena Heights University, please call the Admissions Office at (800) 521-0009, or email us at admissions@sienaheights.edu.