B.A. Biochemistry | Major Map

2022 GRADUATE CAREER OUTCOMES

Based on information from 100% of graduates

100% Secured Employment

100% Admitted Into Graduate School or Professional Program

POPULAR CAREERS

- **Education:** teacher, researcher, public health
- **Health Care:** physician, dentist, medical lab scientist, pharmacist, physician assistant
- **Research & Development:** biochemist, biological technician, food scientist, scientific journalist or illustrator, biophysicist, medical & clinical laboratory technologist, molecular & cellular biologist, biomedical engineer, environmental scientist, forensic science technician

POPULAR EMPLOYERS

Government, safety & inspection service, private research labs & organizations, public health departments, hospital laboratories, commercial medical laboratories, universities & colleges, school districts, rehabilitation centers, correctional facilities

SIGNATURE EXPERIENCES

- **Internships**
  - EROS Data Center
  - National Science Foundation
  - Northern Plains Undergraduate Research Center
  - Sioux Falls Water Treatment
  - POET
  - Biomedical Research Infrastructure Network
  - OmegaQuant
- **Research Opportunities**
  - Biotechnology Associations
  - South Dakota BRIN
  - South Dakota EPSCoR
  - Sanford Program for Undergraduate Research (SPUR)
  - VA Medical Center
- **Study Away**
  - AU Faculty-Led: From the Gulf Coast to the Florida Keys: Introduction to Marine Biology
  - AU Faculty-Led: Kenya Elimu na Kilimo: Glimpses at the Intersection of Global Food Security & Education
  - AU Faculty-Led: Biogeography of Islands (Galapagos, Ecuador)

WHY STUDY BIOCHEMISTRY?

This major is designed to provide students with cross-disciplinary experiences across much of the natural sciences — chemistry, biology, physics and mathematics. The intention is to provide graduates with the ability to readily integrate these disciplines and provide the tools necessary to break boundaries in scientific exploration. Students in this rigorous, interdisciplinary major are precluded from declaring majors in either chemistry or biology, which will allow a greater capacity to take classes outside of the natural sciences. The major is a chemistry degree with a biochemistry emphasis and approved by the American Chemical Society (ACS).

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AUGUSTANA UNIVERSITY

FIRST YEAR	MIDDLE YEAR(S)	LAST YEAR

EXCEL ACADEMICALLY

- Review SOPHIA and program requirements with your academic advisor.
- Review your degree audit report, and create a plan of study in Academic Planner.
- Enroll in BIO 120, CHEM 116 or CHEM 120, MATH 151 & 152 and CHEM 201.
- Participate in FYS 112 to confirm your major, hear from upper-level students about signature experiences and chart a personalized plan for your engagement.
- Choose or confirm your major(s) or minor(s).
- Volunteer at Sanford or Avera Health.

- Explore interdisciplinary minors or elective credits that interest you.
- Contact the Student Success Center to declare any second majors or minors.
- Engage in research, and present your work at the annual research symposium.
- Consider patient care opportunities.
- Enroll in required courses such as BIOL 233, CHEM 202, PHYS 221, CHEM 222, CHEM 242, BIOL 234, PHYS 222, CHEM 301 and CHEM 305, along with 300-level electives.

- Apply to graduate no later than Oct. 1, and review the degree audit provided by the Registrar's Office.
- Continue to gain experience and serve the community (e.g., research, patient care).
- Complete your 300-level CHEM electives.

ENGAGE & APPLY YOUR LEARNING

- Access your Viking Central account. Participate in campus clubs and organizations such as Student Members of the American Chemical Society (SMACS), Biology Club, Women in STEM, Pre-Medicine Club or Society of Physics Students.
- Explore study-away opportunities at the study-away fairs.
- Create an account in Augie Opportunities.

- Go to the Sophomore Retreat.
- Engage in campus leadership, internships, service and relevant summer employment.
- Participate in the alumni mentor program.
- Consider elite scholarship opportunities, such as the Fulbright, Rhodes or Truman.
- Earn the Diversity Advocate Certificate.
- Apply for Knight Internship Funds and ASA transportation funds. Pursue elite fellowships.

- Take standardized exams (e.g., GRE, DAT, MCAT, OAT), and share your application to graduate or professional schools with your advisor and CAP specialist for feedback.
- Attend the BIG (Business, Industry and Government) Career & Internship Fair.
- Continue to connect with alumni.
- Participate in mock interviews and networking events.
- Complete the career outcome survey to update us of your employment or enrollment in graduate school.
- Join the Augustana alumni community.

CHART YOUR COURSE TODAY!

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