

B.A. Physics/Engineering Physics | Major Map

2018-22 GRADUATE CAREER OUTCOMES

Based on information from 100% of graduates

100% Secured Employment

100% Admitted Into Graduate School or Professional Program

POPULAR CAREERS & GRADUATE SCHOOLS

- Research scientist
- Financial & investment analysis
- Secondary education
- Software engineer
- Data scientist
- Medicine
- Engineering: civil, mechanical, biomedical, chemical
- Cornell University
- Columbia University
- Duke University
- University of South Dakota
- North Dakota State University
- University of Wisconsin-Madison
- University of Minnesota Twin Cities

POPULAR EMPLOYERS

Raven Industries, Avera Health, Sanford Health, Honeywell, Rockwell Automation, The Boeing Company, General Electric (GE), Pfizer

SIGNATURE EXPERIENCES

• Off-Campus, Faculty-Led Research Experiences

- Astroparticle Physics: Searching for Dark Matter (Italy and Lead, South Dakota)
- Atomic Molecular and Optical Physics: Molecular Bonding with LASERS (Kansas)
- High Energy Nuclear Physics: Nuclei Under Hot and Dense Conditions (Brookhaven National Lab, Upton, New York)

• Example Research Topics

- Q-SAS: A Quantitative Kidney Stone Analysis Software for the Evaluation of Urinary Stones

• Internships

- POET
- Mayo Clinic
- City of Sioux Falls
- Sanford POWER
- Daktronics

• Study Away

- Browse the list of current offerings at augie.edu/StudyAwayPortal, and contact the IPO to discover opportunities related to your vocational goals.



WHY STUDY PHYSICS?

The Augustana Department of Physics provides outstanding scientific and technical instruction, as well as undergraduate research opportunities — all within the context of a broad liberal arts education. Our goal is a program that prepares our students for lives of intellectual growth and service. The physics program is flexible and, with the appropriate choice of courses, can prepare students for work in industry, graduate study in physics or engineering, as well as teaching at the secondary level, among other options.

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FIRST YEAR

MIDDLE YEAR(S)

LAST YEAR

EXCEL ACADEMICALLY

- Take the math placement exam to set you up for success in your courses.
- Review SOPHIA program requirements with your academic advisor.
- Review your degree audit report, and create a plan of study in Academic Planner.
- Enroll in MATH 151 & 152 and PHYS 221 & 222.
- 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).

- Explore interdisciplinary minors or elective credits that interest you.
- Contact the Student Success Center to declare any second majors or minors.
- Explore and apply for research and/or internship opportunities.

- Apply to graduate by Oct. 1, and review the degree audit provided by the Registrar's Office.
- Attain distinction in physics with the completion of PHYS 391 and other requirements.

ENGAGE & APPLY YOUR LEARNING

- Access your Viking Central account. Participate in service learning and campus organizations such as Sigma Pi Sigma, within the Society of Physics Students, and Augie Women in STEM.
- Explore study-away opportunities at the study-away fairs.
- Create an account in Augie Opportunities.

- Attend the Sophomore Retreat.
- Engage in campus clubs such as the Math Club and Computer Science Club, and gain relevant summer employment.
- Participate in the alumni mentor program.
- Consider elite scholarship opportunities, such as the Fulbright and Goldwater.
- Earn the Diversity Advocate Certificate.
- Apply for Knight Internship Funds and ASA transportation funds. Pursue elite fellowships.

- Attend the BIG (Business, Industry & Government) and Teacher Job Fairs.
- 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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Froiland Science Complex | 605.274.4711