

EDGEWOOD COLLEGE CHEMISTRY, GEOSCIENCE, AND PHYSICS DEPARTMENT



A student in the Chemistry, Geoscience, and Physics (CGP) Department will become a well-informed leader in a world that is increasingly shaped by science and technology. Edgewood College instills the understanding of and life-long enthusiasm for scientific discovery through hands-on learning—both inside and outside of the classroom. With a focus on research, majors in this department are great starting points for a wide range of careers.

In addition to exceptional facilities and outstanding classroom experiences, students also have the opportunity to participate in science-related clubs and organizations.

Edgewood Science Society (ESS) is a student organization designed to promote community amongst science majors and students who take science courses. Members organize social events, support K-12 science activities, and plan field trips.

Achievement in Medicine (AIM) is a student organization dedicated to health-related careers such as medicine, dentistry, pharmacy, and veterinary medicine.

MAJORS

Broad Field
Natural Science

- *Chemistry Concentration*
- *Geoscience Concentration*
- *Physics Concentration*

Chemistry

- *Professional Concentration*
- *Biochemical Concentration*

MINORS

Chemistry
Earth Science
Physics

COLLABORATIVE PROGRAMS

Natural Science/
Pre-Engineering

TEACHING MAJORS

Broad Field Science:
Earth and Space Science

Broad Field Science:
Physical Science
including Chemistry

Broad Field Science:
Physical Science
including Physics

Chemistry Teaching

The Chemistry major provides students with two concentrations. The Professional concentration prepares students for graduate work in chemistry as well as work in industrial and government laboratories in the areas of quality control, product development, and environmental testing. The Biochemical concentration prepares students for graduate work in biochemistry and professional programs such as dental, medical, pharmacology, pharmacy, physician assistant, and veterinary school.

Edgewood offers the opportunity to study engineering in partnership with the University of Wisconsin-Madison or Marquette University. In this program, students take 2–3 years of coursework in the natural sciences at Edgewood College and then transfer directly into the College of Engineering at either UW-Madison or Marquette. In just 5 years, students may receive two bachelor's degrees—one from Edgewood College and another from their College of Engineering.

Along with opportunities that the classroom will present, Edgewood College also encourages you to pursue independent research projects and internships with strong support from faculty, staff, and other students and to get involved in our science-focused student groups.

SAMPLE OF COURSES

CHEM 321 - Organic Chemistry

Topics include the structure and physical properties of organic compounds, stereochemistry, reactions and their mechanisms and structure-reactivity relationships. Labs introduce techniques including chromatography, distillation and spectroscopy.

GEOS 206 - Environmental Geology

Application of the geosciences to problems resulting from society's interaction with the physical environment. Emphasis on the recognition, prediction, control, and public policy implications of environmental problems related to earth processes such as rivers, groundwater, erosion, landslides, and earthquakes.

PHYS 310 - Principles of Mechanics

Origin and development of classical mechanics; mathematical techniques, especially vector analysis; conservation laws and their relation to symmetry principles; and brief introduction to orbit theory.

For a complete list of courses and course descriptions, please visit www.edgewood.edu/catalogue.aspx.

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