

CAREER OPTIONS

Internships and research opportunities, which enhance student marketability and acceptance into graduate school, are available in organic chemistry, biochemistry, and physics. After graduation, students pursue job opportunities in a wide variety of dynamic fields including:

- Pharmaceutical research
- Scientific research
- Environmental analysis
- Water analysis
- Teaching
- Chemistry
- Astronomy
- Physics
- Biochemistry



A Bright Future

Eastern's new 173,000 square foot science building was completed in fall 2008. The building provides a modern, state-of-the-art space for math and science instruction and research; promotes cross-disciplinary interaction; and provides a facility that attracts the best faculty and students.

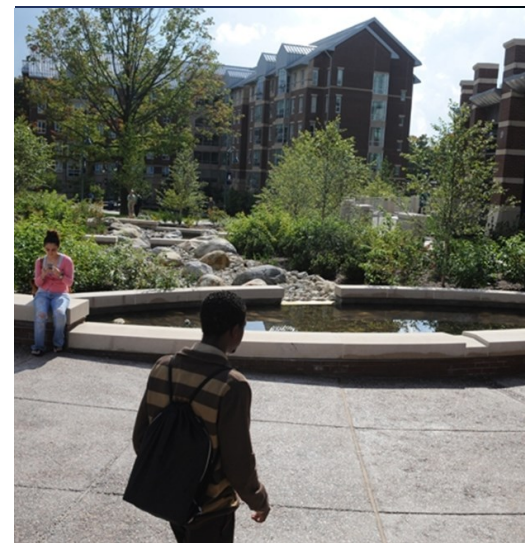


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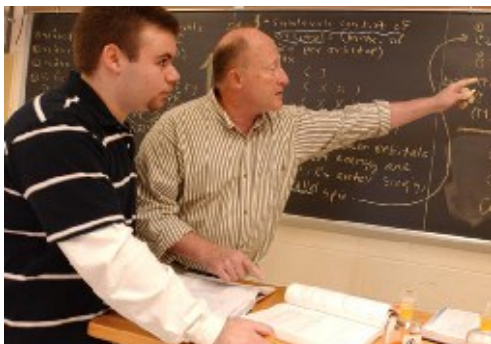
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<http://www.easternct.edu/physicalscience/>

PHYSICAL SCIENCES



Eastern Connecticut
State University
83 Windham Street
Willimantic, CT 06226



Why Study Physical Science at Eastern?

Eastern Connecticut State University's Physical Sciences Department is growing on all levels. We offer a variety of courses in biochemistry, chemistry, astronomy, and physics and five minor programs in astronomy outreach and public presentation, biochemistry, chemistry, physics and physical science. Minor programs are recognized for their unique emphasis on hands-on learning experiences for students as faculty members concentrate on the practical applications of what they teach in the classroom. The department's two majors, Biochemistry and Health Sciences, are detailed in a separate publication.

The Department of Physical Sciences offers small classes that allow students to ask questions and encourage discussions with knowledgeable and dedicated faculty members. Students have an opportunity to collaborate with and get to know their professors during independent study projects in our *state of the art* science building with modern instrumentation. In addition, The Robert K. Wickware Planetarium provides an on-campus "star theatre" with a 30' dome and a Spitz System 512 Star Projector for demonstrations of phenomena essential to our astronomy courses. Students can observe, calculate, and interpret the

Courses of Study

The **Physical Science** minor is designed to give students a foundation in the physical sciences and to enhance their career opportunities in an increasingly technical world. **Degree Requirements:** One course in chemistry at or above CHE 217. Two semesters of General Physics: PHY 204 or PHY 208 and PHY 205 or PHY 209. AST 214 Descriptive Astronomy or PHY 217 Meteorology. **Electives:** One elective course in either chemistry, physics, or astronomy at the following levels: Chemistry (above CHE 217), Physics (above PHY 209), Astronomy (above AST 214), PHS 302

The **Physics Minor** is offered for students wishing to pursue a study of physics beyond that of the introductory level and to gain experience with the uses of applied mathematics in physics. **Requirements** for the physics minor include a two semester sequence in general physics with laboratory, MAT 341 Differential Equations, and two electives chosen from physics courses at the 300 level or above. CSC 355 and CSC 356 Digital Logic with Laboratory may also be used as an elective in the minor.

The **Biochemistry Minor** is offered for those students who desire a more concentrated course of study in biochemistry connected to their primary major. **Requirements** are: CHE 216-217, CHE 316, CHE 317 and CHE 318. **Electives:** Any one of the following courses: BIO 334, BIO 422, BIO 450 and CHE 323. A minimum of three courses in this minor must be unique to this minor and will not be counted toward any other graduation requirement.

The **Chemistry Minor** is offered for those students who wish to acquire a variety of chemistry courses to broaden their knowledge of chemistry and laboratory techniques to better enable them to find suitable employment, and strengthen their background in chemistry. The minor consists of CHE 216—CHE 217 (w/labs) plus three additional designated courses, with an average grade of C or better. A maximum of 2 courses may be transfer courses.

The **Astronomy Outreach and Public Presentation Minor** is designed to give students the necessary skills to present astronomy in a K-12 or public setting. The students will learn the science of astronomy and the fundamental technical skills for the operation of the planetarium. The minor is 18 credits and a minimum grade of C is required in each class within the minor.



The Department of Physical Sciences is committed to promoting scientific literacy and preparing graduates for careers in the sciences and teaching. For more information visit <http://www.easternct.edu/physicalsciences/>

