



PHYSICAL SCIENCES-PHYSICS

COLLEGE OF HEALTH & SCIENCES

Careers With a Physics Degree:

Astronomer
Computer Programmer
Consultant
Doctor
Engineer
Entrepreneur
Geophysicist
Lawyer
Mathematician
Medical Physicist
Military Fighter Pilot
NASA Subcontractor
Physicist
Power Plant Operator
Professor
Science Teacher
Scientist
...and so much more!

Scholarships Available to Qualified Physics Majors:

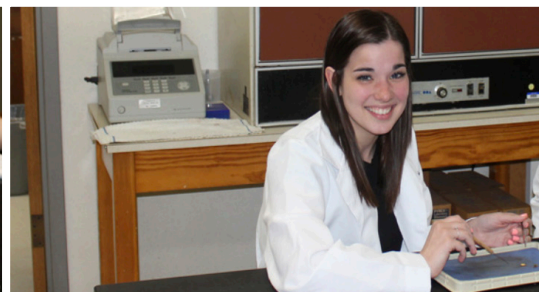
Brown Mackin Scholarship
1950s Science Fund
Shelby Jane Bays Memorial
Scholarship
Carlock Scholarship
Stringfield Scholarship
Physics Department
Scholarship
Bulman Scholarship
Higginbotham Scholarship
Doug Williams Memorial
Scholarship
Briles Scholarship



Physics is one of the most fundamental and all-inclusive of the sciences. It is an attempt to understand the foundations of our universe through the study of the phenomena of motion, force, energy, sound, electricity, magnetism, thermodynamics, heat, light, and quantum mechanics. Physics students use advanced mathematics to solve challenging experimental or theoretical problems, so they often major in Mathematics as well. The ability to analyze a problem and find the best possible solution is vital to success in many fields. As a result, Physics graduates often work in such seemingly non-related areas as medicine, law, biology, business or military science, as well as in engineering, mathematics, or the computer science industry.

> Degree Amenities

Physics is housed in the Physical and Environmental Sciences building with access to modern computers, the OU Supercomputer and equipment, a Physics ultrasound laboratory, as well as an advanced Nuclear and X-Ray spectroscope. A 14-inch telescope and several other telescopes are located at the ECU observatory on campus. Small classes and ready access to caring professors help students succeed. With the McNair Scholars Program, the NASA Space grant, and the OK-LSAMP Program, students are able to earn money and valuable experience doing research.



East Central University

1100 E. 14th St.

Ada, Oklahoma 74820



www.ecok.edu/Physics • 580-559-5410

Campus Tours:

ecok.edu/take-a-tour

580-559-5628

ecutiger@ecok.edu

DEPARTMENT OF PHYSICAL SCIENCES-PHYSICS

> DEGREE OPTIONS



Physics

The Bachelor of Science in Physics prepares students for employment in a wide range of fields or for graduate school in Physics or related areas including Engineering, Medicine, Mathematics, and Astronomy.

Physics Teacher Certification

The Bachelor of Science in Physics with a concentration in Teacher Certification provides the physics content and pedagogy through education courses for licensure and a career in secondary science education. Graduates may also be ready to pass certification exams in Mathematics, Biology, and Chemistry.

Medical Physics

The purpose of this degree is to best prepare students for entry into a master's program in Medical Physics. There are CAMPEP-accredited institutions in the U.S. and Canada. The University of Oklahoma Health Science Center grants Master of Science in Medical Physics. The B.S. degree option in Medical Physics was designed to allow the student to have the courses necessary to attend any of the accredited schools. Some students attend in Biophysics M.S. programs. ECU has the only Bachelor of Science in Medical Physics program in Oklahoma.

Pre-Engineering Program

The Pre-Engineering program is managed by the Physics department. This is a 2- or 3-year program which gives students the fundamentals of Physics, Chemistry, Math, etc. that are needed to prepare a student to transfer to a university that offers an Engineering degree. Some students also transfer to an Engineering Technology program. Many students complete a Physics degree at ECU and then transfer to an Engineering school to obtain a master's degree.

Department of Physical Sciences

Dean: Dr. Ken Andrews

Department Chair: Dr. Randall Maples

Degree: Bachelor of Science

Concentrations: 4

Minors: 1

Faculty: 3 full-time & 1 part-time

Organizations: 2

Scholarships: 10

Location: 244 PES Building

ECU at a Glance

Undergraduate Enrollment: 3,300

Undergraduate Majors: 60+

Student to Faculty Ratio: 17 to 1

Average Class Size: 22

Faculty with PhDs: 65%

States Represented: 28

Countries Represented: 30+

Year Founded: 1909

Campus Size: 140 acres

Area Location: Ada, Oklahoma

Tiger Spirit

Mascot: Roary the Tiger

School Colors: Orange & Black

Student Organizations: 35+

Athletics: NCAA Division II

Men's:
Football
Baseball
Basketball
Cross Country
Track & Field
Golf

Women's:
Basketball
Volleyball
Softball
Soccer
Cross Country
Track & Field
Golf



To prepare students for tomorrow's world through a dynamic & diverse learning experience.

