



Department of Physics

> COLLEGE OF HEALTH AND SCIENCES



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, computer science, or industry.

> Degree Amenities



Physics is housed in the Physical and in Environmental Sciences building with access to modern computers and equipment including an advanced physics ultrasound laboratory. 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 L.S. AMP Program, students are able to earn money and valuable experience doing research.

> Scholarships for Physics Majors

The Physics department makes scholarships and other financial aid available to qualified students through the following programs:

- 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

ECU awarded 5% of the total number of Native American Physics BS Degrees. - American Institute of Physics 2011-13 Report

East Central
University
1100 E. 14th St.
Ada, Oklahoma 74820

www.ecok.edu/Physics
580-559-5394



Campus Tours:
ecok.edu/take-a-tour
Begin at ECU Admin, 102
580-559-5628
admissions@ecok.edu



What can I become?



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



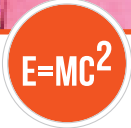
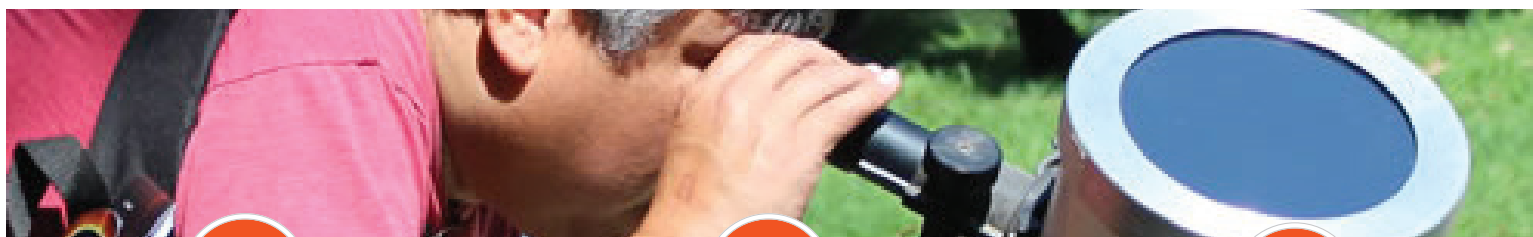
Show Me the Money!

Graduates with a physics degree typically earn between \$42,000 and \$61,000 for entry level jobs. As a college graduate, you can earn an average of 75% more than those with only a high school degree, per *The Chicago Tribune!*
(NACE 2018 Salary Report)




Department of Physics

> DEGREE OPTIONS




Department of Physics

Dean: Dr. Ken Andrews,
College of Health and Sciences
Chair: Dr. Dwight Myers
Degree: Bachelor of Science
Concentrations/Programs: 4
Minor: 1
Faculty: 3 full-time & 1 part-time
Organizations: 2
Scholarships: 10
Location: 248 P&ES Building



ECU at a Glance

Undergraduate Enrollment: 3,500+
Undergraduate Majors: 70+
Student to Faculty Ratio: 18 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: 60+
Athletics: NCAA Division II

Men's:	Football	Cross Country
	Baseball	Track & field
	Basketball	
Women's:	Basketball	Soccer
	Volleyball	Cross Country
	Softball	Track & field

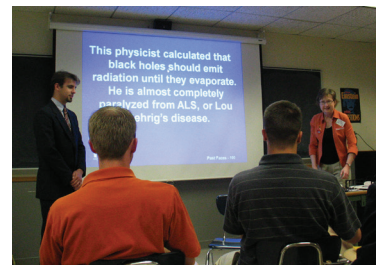
Physics

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, physical science and chemistry.



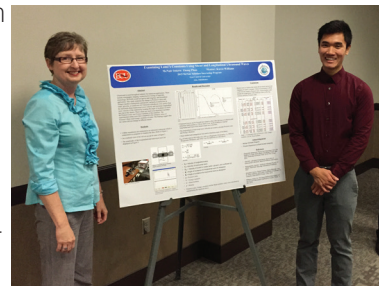
Medical Physics

The purpose of this degree is to best prepare students for entry into a masters program in medical physics. There are CAMPEP accredited institutions in the U.S. and Canada. The University of Oklahoma Health Science Center grants masters of science in medical physics. The BS 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 MS 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.



We educate and empower students to understand and transform our world.

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