

# ECU MATHEMATICS & COMPUTER SCIENCE

## COLLEGE OF HEALTH & SCIENCES

### Careers with a Math & Computer Science Degree:

Art Craft Design Engineers  
Applied Mathematicians  
Bankers  
Business Administrators  
Computer Programmers  
Database Administrators  
Database Developer  
Epidemiologists  
Network Engineers  
Physicians  
Pilots  
Scientific Programmers  
Software Developers  
Software Engineers  
Stockbrokers  
Surveyors  
Systems Analysts  
Teachers  
Web Developers  
...and so much more!



### > Mathematics Program

The Mathematics program offers four concentrations which lead to a bachelor of science degree. The curriculum is flexible and can be adapted to a variety of student interests. After completing one of the three concentrations, program graduates typically enter the job market as applied mathematicians in business or industry, actuarial trainees, or certified teachers of secondary school mathematicians. Some program graduates pursue study in graduate school leading to advanced degrees in Mathematics, Statistics, Computer Science, Financial or Management Science, while others elect to pursue further study in a professional school such as law or medicine. Our faculty:

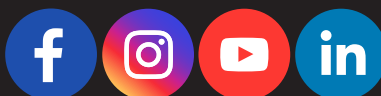
- are committed to your success;
- will develop and deliver programs and services that assist you;
- will promote learning that is rigorous and meaningful for you;
- will challenge you to aspire your highest academic, social, and career goals.

### > Computer Science Program

The computer science program offered its first degree program in 1982. Since that time, the department has grown to more than 200 majors and a service enrollment of approximately 500 students each semester. The new online computer science program only adds to those numbers.

Our program provides a solid education in all major areas of Computer Science with an emphasis on Software Engineering. Computer Science students generally complete a Bachelor of Science degree in four years. Our graduates are typically employed by large companies who need skilled software design specialists to work on the cutting edge of the field. Our Computer Science faculty are committed to the success of our students. We strive to insure a solid computer service education, a great college experience, and a bond that will forever tie you to ECU. Our Computer Science faculty are also academically active in scholarship and research.

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



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**Campus Tours:**  
[ecok.edu/take-a-tour](http://ecok.edu/take-a-tour)  
580-559-5628  
[ecutiger@ecok.edu](mailto:ecutiger@ecok.edu)

# MATHEMATICS & COMPUTER SCIENCE



## General Mathematics

The general mathematics concentration provides preparation for the student who plans to enter a graduate program in mathematics. A student taking this concentration, in consultation with his or her advisor, should choose elective courses which meet the entrance requirements of the desired graduate program.

## Teacher Certification in Mathematics

The teacher certification concentration, in conjunction with professional education courses, prepares students for teaching mathematics at the secondary level. Majors take courses in both education, mathematics, and mathematics education. Curriculum emphasizes pedagogy technology, diversity, and current trends in education.

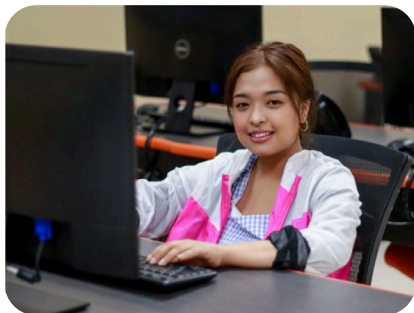
## Data Science

The Data Science concentration is for students interest in applying mathematics, statistics, and computer science to a wide range of business problems. With a broader focus, students in this concentration will be prepared to work in a variety of industries.

## Applied Mathematics/Pre-Actuary

The Applied Mathematics/Pre-Actuary concentration prepares students for entry into the job market as an applied mathematician or actuarial trainee, for a career, in a finance, or for entry into a graduate program in applied mathematics, actuarial science, statistics, finance, or quantitative management science.

## Computer Science



The Computer Science degree program prepares students for a career in the world of technology. Both online and in-seat options for majors of this program. Lucrative salaries and opportunities to work on interesting and challenging projects are the rewards which await those who choose the Computer Science major. Technology touches essentially every aspect of life. Students have access to a powerful Linux-based mainframe as well as the University computer network. Majors

have access to both labs and 24/7 remote access. The curriculum is designed using guidelines published by the Association of Computing Machinery (ACM). Courses provide students excellent training in the scientific and technical areas of computing and the preparation necessary to pursue graduate work in this field. The course of study is mathematical in nature with emphasis on software engineering.

## Mathematics & Computer Science

**Dean:** Dr. Ken Andrews

**Chair:** Dr. Andrew Wells

**Degree:** Bachelor of Science

**Concentrations:** 5

**Minors:** 2

**Faculty:** 10 full-time &  
1 part-time

**Organizations:** 3

**Scholarships:** 17

**Location:** 207 Science Hall

## 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+

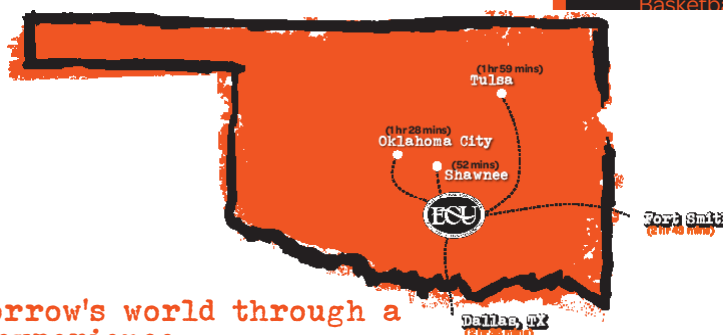
**Athletics:** NCAA Division II

### Men's:

Football  
Baseball  
Basketball

### Women's:

Basketball  
Volleyball  
Softball  
Soccer  
Cross Country  
Track & Field  
Golf



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