MATHMATICS, BA

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Program Coordinators:
- Mathematics Concentration: Alexandra Shlapentokh (231 Austin Building; 252-328-4108; shlapentokha@ecu.edu)
- Statistics Concentration: Christopher Carolan (125-C Austin Building; 252-328-2130; carolanc@ecu.edu)

Credit toward a mathematics major will not be given in any MATH course with a grade less than C- (1.7). The degree offers two concentration areas: mathematics and statistics. The mathematics concentration requires a minor and the statistics concentration requires specified cognates in lieu of a minor.

Minimum degree requirement is 120 s.h. of credit as follows:

1. General education requirements - 40 s.h.

(For information about courses that carry general education credit see General Education Program.)

2. Demonstrated foreign language proficiency through level 2004 - 12 s.h.

(For information about the foreign language requirement see Special Requirements for the BA Degree and Placement Testing, Foreign Language.)

3. Common core - 30 s.h.

- MATH 2171 - Calculus I
- MATH 2172 - Calculus II
- MATH 2173 - Calculus III
- MATH 2300 - Transition to Advanced Mathematics
- MATH 3256 - Linear Algebra
- MATH 3263 - Introduction to Modern Algebra
- MATH 3307 - Mathematical Statistics I
- MATH 4101 - Advanced Calculus I
- MATH 4331 - Introduction to Ordinary Differential Equations

4. Cognate - 4 s.h.

- CSCI 1010 - Algorithmic Problem Solving
- CSCI 1011 - Algorithmic Problem Solving Lab

5. Concentration area to include minor or specified cognates - 24-36 s.h.

(Choose one area.)

Mathematics - 24-36 s.h.
Electives - 6 s.h.

Choose MATH electives numbered above 2990.

Statistics - 24 s.h.

Required courses - 21 s.h.

- MATH 3308 - Mathematical Statistics II
- MATH 4005 - Introduction to Sampling and Experimental Design
- MATH 4031 - Applied Statistical Analysis

- MATH 4100 - Mathematics of Risk Analysis or
- MATH 4300 - Financial and Actuarial Mathematics

- MATH 4201 - Introduction to Stochastic Processes
- MATH 4774 - Programming for Research
- MATH 4801 - Probability Theory

Elective - 3 s.h.

Choose 3 s.h. from the following:

- ECON 4443 - Econometrics
- ENGR 3800 - Quality Control for Engineers
- MATH courses numbered above 2999

6. Electives to complete requirements for graduation.

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