

B.S. in Mathematics

Overview

Degree Requirements

Description

The Department of Mathematics offers a B.S. in mathematics for students who wish to pursue graduate training in mathematics or to undertake careers in mathematically oriented professions. The B.S. degree allows the freedom to pursue mathematical depth in areas such as pure mathematics, applied mathematics, statistics, discrete mathematics, mathematics and computer science, or finance and actuarial science.

Minimum Total Credit Hours: 120 General Education Requirements

See the 'General Education/Core Curriculum' for the College of Liberal Arts.

Course Requirements

A major in mathematics for a B.S. degree consists of 42 hours of mathematics courses as indicated below, plus a computer programming class chosen from:

• Csci 111, 251, 256, or 259.

Core Courses (24 hours)

- Math 261-264: Calculus I-IV 12 hours
- Math 305: Foundations 3 hours
- Math 319: Linear Algebra 3 hours
- Math 555: Advanced Calculus I 3 hours
- Math 525: Modern Algebra I 3 hours

A two-course in-depth sequence

- 555/556: Advanced Calculus I and II
- 525/526: Modern Algebra I and II
- 301/401: Discrete Math/Combinatorics
- 353/454: Elementary/Intermediate Differential Equations
- 375/475: Statistics

Electives:

300 level or above to reach the total of 42 credit hours of mathematics courses. The same mathematics course may satisfy more than one category, but students must still complete the total hours for the major.

An optional emphasis in statistics requires three courses:

- Math 375 Introduction to Statistics I
- Math 380 Statistical Computing and Data Analysis
- Math 475 Introduction to Statistics II

Other Academic Requirements

Grades lower than C in mathematics courses will not be counted toward the mathematics major for the B.S. degree. **Specializations**

• Emphasis - Statistics

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

