

# Mathematics (MS) - Non-Thesis Option With Computer Science Emphasis

## Degree Requirements

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### Computer Science Emphasis (Non-Thesis)

A minimum of 23 semester hours of Mathematics courses including MA 535 and MA 536.

MA 521 or MA 525.

A minimum of 9 semester hours of Computer Science courses approved by the Mathematics Graduate Committee.

Complete a comprehensive examination covering a collection of courses specified by the Graduate Coordinator.

Complete MA 592 (Seminar) during at least two semesters.

MA 501, MA 502, MA 503, MA 504, MA 505, MA 506 do not satisfy degree requirements.

## Policies And Procedures

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The document "Department Policies and Procedures for the MS Degree Program in Mathematics" is posted on the departmental website. It contains details concerning advising, the comprehensive examination, graduate assistant duties, student meetings and colloquia.

## Department Information

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[Department of Mathematics and Statistics website](https://www.southalabama.edu/colleges/artsandsci/mathstat/)  
<https://www.southalabama.edu/colleges/artsandsci/mathstat/>

## Developmental Studies

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The courses and academic support through an on-demand tutoring center offered by the developmental studies in mathematics provide students with the opportunity to strengthen the basic mathematical skills necessary to progress to college-level mathematics courses.

Credits earned in courses with a DS prefix do not meet degree requirements within the University. The credits earned do carry institutional, non-degree credit and allow students to qualify for financial aid. Grades earned are computed into the overall GPA in most colleges and hours are counted toward classification (sophomore, etc.). Credits earned in courses with a MTH prefix count as free electives.

### Math Lab Information

Location

The Math Technology Lab is located in ASC 1301.

Resources:

- 137 computer workstations with Internet access
- Separate testing area and private tutoring rooms
- Study room for one-on-one or group tutoring
- Tutors and instructors available during all operating hours to assist students

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## Undergraduate Studies

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The purpose of the Department of Mathematics and Statistics is to provide a well-rounded program for students majoring in the mathematical sciences and to fulfill the mathematical science needs of students in other fields of study. To this end, the department emphasizes excellence in teaching, and encourages the professional growth of its faculty through study, research, and consulting.

The Department offers a major leading to the Bachelor of Science Degree in Mathematics and Statistics. We also offer a minor in mathematics and a minor in applied statistics. Students pursuing a degree in Mathematics and Statistics also must have a minor in another discipline.

All first-time freshmen must successfully complete CAS 100: First Year Experience as a degree requirement. Students must enroll during their first term at USA, except for summer-entry students who must enroll in the fall semester following entry. ST 335 will fulfill the technology proficiency requirement.

### Where To Begin In The Mathematics Courses?

Students must begin at the proper level and in the proper track in mathematics. Students who lack college level credit in mathematics should take the placement exam at least 48 hours prior to registering for a mathematics course. Students must register online to take the test. Times and days of the test as well as registration information are available at the department website.

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## Graduate Studies

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A Master of Science degree in Mathematics is offered by the Department of Mathematics and Statistics. The program has been designed to meet the varied needs and goals of most students seeking advanced degrees in mathematics. The course of study accommodates students interested in traditional and modern mathematics, applied mathematics, statistics, and computer science.

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## Requirements For Admission

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Students are admitted each semester. The following criteria supplement the Graduate School requirements.

### Regular Admission

1. A bachelor's degree in mathematics or in a mathematics-related field from an accredited institution of higher education with a concentration of upper-level mathematics courses including a sequence in advanced calculus or real analysis.
2. A minimum GPA of at least a 3.0 on all undergraduate work. In exceptional cases, applicants may be considered with at least a 2.5 GPA on all undergraduate work, or at least a 2.75 GPA on the last 60 hours of undergraduate work.
3. Submission of scores on the General Test of the Graduate Record Examination. A minimum combined score of 297 on the verbal and quantitative sections or a minimum score of 148 on the quantitative section (without regard to the score on the verbal section). An advanced degree or other standardized test score may be considered in lieu of a GRE score.
4. English proficiency requirement for international applicants:
  - Minimum TOEFL score of 71 OR
  - Minimum IELTS score of 6 OR
  - Minimum iTEP score 3.7 OR
  - Minimum Pearsons (PTE Academic) score 48Applicants who hold a bachelor's degree from an accredited U.S. institution are not required to submit test scores.
5. Three original letters of recommendation written by persons familiar with the applicant's qualifications and ability to undertake the proposed course of study are required.

### Non-Degree Admission

Applicants who do not meet all the conditions for admission or who are not interested in earning a graduate degree may apply for non-degree admission. Adequate undergraduate preparation in mathematics which indicates a reasonable chance of success in graduate mathematics courses is required for non-degree admission. After admission, permission of the department graduate coordinator is required for each course taken. In cases where undergraduate preparation is inadequate for a particular graduate course, a plan of study including additional undergraduate courses can be worked out in consultation with the graduate coordinator.

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## Graduate Assistantships

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Graduate students holding assistantships are usually assigned duties such as tutoring or supervising recitation sections in the Department of Mathematics and Statistics. Awards are normally made for the academic year, but positions occasionally become available during the year. An assistantship application can be obtained from the Graduate Coordinator in the department and on-line. Three letters of recommendation sent directly to the Graduate Coordinator are required. Graduate Assistants are required to enroll in MA 592 (Seminar) each semester.

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## Policies And Procedures

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