STATISTICS, B.S.

Overall Requirements
- 120 credit hours, to include at least 36 credits at or above the 300 course level.
- A minimum grade of C (2.0) is required for all CSC, ISM, MAT, and STA courses to count towards the major.

Degree Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
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<td>University Requirements</td>
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<td></td>
<td>General Education Requirements (MAC)</td>
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<td></td>
<td>College of Arts and Sciences Additional Requirements (CIC)</td>
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<td>Major Requirements</td>
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Mathematical Foundations
- MAT 196 Calculus A
- MAT 296 Calculus B
- MAT 396 Calculus C
- MAT 310 Elementary Linear Algebra

Programming
- One course chosen from the following:
  - CSC 120 Introduction to Computer Programming for Non-Majors
  - CSC 130 Introduction to Computer Science
  - CSC 220 Elementary Data Structures-A Transition
  - CSC 230 Elementary Data Structures and Algorithms

Fundamental Statistics
- STA 290 Introduction to Probability and Statistical Inference
- STA 301 Statistical Methods
- STA 352 Statistical Inference

Advanced Statistics
- Two additional STA courses at the 300 level or above.
- Two additional STA courses at the 400 level.

Electives
- Two additional courses chosen from the following:
  - CSC 405 Data Science
  - CSC 425 Bioinformatics
  - ISM 218 Database Systems
  - MAT 253 Discrete Mathematical Structures
  - MAT courses at the 300 level or above.
  - STA courses at the 300 level or above.

Capstone Experience
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MAT 490</td>
<td>Senior Seminar in Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

The following courses are not eligible to count towards the Electives requirement:
- MAT 405
- MAT 406
- MAT 465

Electives
- Electives sufficient to complete the 120 credit hours required for degree.

Application and Admission
Qualified UNC Greensboro undergraduate students who are pursuing the B.A. or B.S. in Mathematics may apply for admission to the Accelerated Master’s Program (AMP) and the M.S. in Applied Statistics program. A cumulative undergraduate GPA of at least 3.5 based on at least 30 credits earned at UNC Greensboro is required. Applicants must have completed at least 60 credits and may not apply for admission to the AMP before the first semester of the junior year. All applicants must submit the Accelerated Master’s Program information when applying for admission to the M.S. in Applied Statistics.

Courses
- Admitted students may apply up to 12 credits of graduate-level course work toward completion of both the undergraduate and graduate degree, provided that they earn a grade of B (3.0) or better in the course and fulfill graduate-level requirements. The graduate courses the student will take within the Accelerated Master’s Program in Applied Statistics must be approved by the Graduate Program Director, must be specified on the Accelerated Master’s Program request, and must be selected from the following list.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>STA 602</td>
<td>Statistical Methods for Data Analytics</td>
<td>3</td>
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<tr>
<td>STA 606</td>
<td>Solving Problems with Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>STA 631</td>
<td>Introduction to Probability</td>
<td>3</td>
</tr>
<tr>
<td>STA 632</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
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Please consult with your undergraduate advisor to determine how the courses taken at the graduate level will meet requirements in the bachelor’s degree program. All requirements for the M.S. in Applied Statistics remain the same.