

# Statistics Major and Applied Statistics Minor

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The Department of Statistics offers coursework leading to a bachelor's degree in statistics. The department also offers a wide array of introductory service courses for general undergraduate audiences. These courses deal with statistical methods in applications that

One of the following courses  
 MATH 0280 Introduction to Matrices and Linear Algebra  
 MATH 1180 Linear Algebra 1  
 MATH 1185 Honors Linear Algebra

Two of the following introductory applied statistics courses  
 \_\_\_\_\_ STAT 1201  
 \_\_\_\_\_ STAT 1211  
 \_\_\_\_\_ STAT 1231  
 \_\_\_\_\_ STAT 1241  
 \_\_\_\_\_ STAT 1251

**Recommended courses**

Because professional statisticians collaborate with other scientists, students are encouraged to take elective courses from the behavioral, natural, physical, and social sciences. Students who plan to study statistics at the graduate level are strongly advised to take MATH 0413 and MATH 0420, or MATH 0450 (in lieu of both MATH 0413 and MATH 0420), MATH 1180, and as many additional mathematics courses in advanced calculus (MATH 1530, 1540), numerical analysis (MATH 1070, 1110), and computer science courses (CS 0007, 0132, 0401, 0445, 0447) as possible.

Intermediate applied statistics courses  
 \_\_\_\_\_ STAT 1301  
 \_\_\_\_\_ STAT 1311  
 \_\_\_\_\_ STAT 1321  
 \_\_\_\_\_ STAT 1361

Choose one course

**Grade requirements**

A grade of C or better is required in each course that counts toward the major.

Both of the following courses  
 \_\_\_\_\_ STAT 1631      \_\_\_\_\_ STAT 1632

**Satisfactory/No Credit option**

No course that counts toward the major can be taken on an S/NC basis.

One of the following courses  
 \_\_\_\_\_ STAT 1731      \_\_\_\_\_ STAT 1741

**Writing (W) requirement**

Students must complete at least one course in the major.

One elective course from the lists of introductory or intermediate applied statistics courses, or from the following list

\_\_\_\_\_ STAT 12      \_\_\_\_\_ STAT 1731  
 \_\_\_\_\_ STAT 13      \_\_\_\_\_ STAT 1741

**Honors major requirement**

Honors in statistics is granted if in addition to fulfilling all requirements for the major, the student:

- has a minimum GPA of 3.5 in all mathematics and statistics courses taken; and
- has a minimum GPA of 3.7 in all 1000-level courses taken within the department.

Four mathematics courses, choose one of the following groups

\_\_\_\_\_ MATH 0220      \_\_\_\_\_ MATH 0220  
 \_\_\_\_\_ MATH 0230      \_\_\_\_\_ MATH 0235  
 \_\_\_\_\_ MATH 0240      \_\_\_\_\_ MATH 0240

**Advising**

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One of the following courses  
 \_\_\_\_\_ MATH 0280  
 \_\_\_\_\_ MATH 1180  
 \_\_\_\_\_ MATH 1185

**Checklist for the Applied Statistics minor**

\_\_\_\_\_ STAT 1000  
 \_\_\_\_\_ STAT 1221  
 \_\_\_\_\_ STAT 1      (1200 level or above)  
 \_\_\_\_\_ STAT 1      (1200 level or above)  
 \_\_\_\_\_ STAT 1      (1200 level or above)

**Checklist for the Statistics major**

**Required courses**

\_\_\_\_\_ STAT 1000  
 \_\_\_\_\_ STAT 1221  
 \_\_\_\_\_ STAT 1223  
 \_\_\_\_\_ STAT 1151  
 \_\_\_\_\_ STAT 1152

1. Acceptable substitutes include ENGR 0020, STAT 0200, or STAT 1100.
2. STAT 1223 does not count toward the minor.

Note: Students must apply for any official status.