

Statistics

Major Requirements

The department offers both a B.A. and a B.S. degree in Statistics as well as a B.S. in Statistics with options in Statistical Computing and Quantitative Management.

The major requirements for the B.A. and the B.S. degrees in Statistics are as follows:

For the Bachelor of Arts

1. Core requirements (24–25 units)
 - a) CS 010, MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A
 - b) Four (4) additional units in Mathematics, chosen from MATH 023, MATH 113, or MATH 131
2. Upper-division requirements
 - a) Thirty-six (36) units of upper-division course work
 - (1) STAT 147, STAT 155, STAT 157, STAT 170A, STAT 170B
 - (2) Twelve (12) units chosen from STAT 127/BUS 127, STAT 130, STAT 140, STAT 146, STAT 160A, STAT 160B, STAT 160C, STAT 171
 - (3) Four (4) units of STAT 197 taken at the end of the Senior year

Note An introductory Statistics class such as STAT 048, or STAT 100A is strongly recommended.

For the Bachelor of Science

1. Core requirements (24–25 units)
 - a) CS 010, MATH 008B or MATH 009A, MATH 009B, MATH 009C, MATH 010A
 - b) Four (4) additional units in Mathematics, chosen from MATH 023, MATH 113, or MATH 131
2. Upper-division requirements (52 units)
 - a) Thirty-six (36) units of upper-division course work
 - (1) STAT 147, STAT 155, STAT 157, STAT 170A, STAT 170B
 - (2) Twelve (12) units chosen from STAT 127/BUS 127, STAT 130, STAT 140, STAT 146, STAT 160A, STAT 160B, STAT 160C, STAT 171
 - (3) Four (4) units of STAT 197 taken at the end of Senior year
 - b) Sixteen (16) units of additional course work chosen, with the approval of the major advisor, from Statistics courses

numbered 104 and higher or from related fields.

Note An introductory Statistics class such as STAT 048 or STAT 100A is strongly recommended.

Statistical Computing Option

The requirements for this option are in addition to the requirements for the B.S. in Statistics, except that the option requirement takes the place of the 16 units in 2.b) above.

1. Lower-division requirements (8 units):
CS 012, CS 014
2. Upper-division requirements (16 units)
 - a) MATH 113
 - b) Twelve (12) units of course work selected from
 - (1) CS 141, CS 177
 - (2) MATH 112, MATH 120
 - (3) STAT 198-I
 - c) MATH 135A, MATH 135B recommended

Quantitative Management Option

The requirements for this option are in addition to the requirements for the B.S. in Statistics, except that the option requirement takes the place of the 16 units in 2.b) above.

1. Lower-division requirements (16–17 units)
 - a) ECON 003
 - b) BUS 010, BSAD 020A, BSAD 020B
2. Upper-division requirements (16 units)
 - a) MATH 113
 - b) Three courses from one area
 - (1) Marketing: BUS 103, BUS 113, BUS 117
 - (2) Finance: BUS 106/ECON 134, BUS 135A, BUS 135B, BUS 136, BUS 138
 - (3) Accounting: BUS 108, BUS 165A, BUS 165B, BUS 168A, BUS 168B
 - (4) Management Information Systems: BUS 101, BUS 171, BUS 173

Minor

The minor in Applied Statistics is designed to give students in either the social sciences or the physical sciences a cohesive set of statistics courses to deal with the data analytic aspects of their disciplines and to understand the statistical summaries that are encountered in everyday activities.

The requirements for the minor consist of at least 24 and not more than 28 upper-division units

in Statistics to include the following:

1. STAT 100A, STAT 100B
2. Eight (8) units from STAT 110, STAT 127/BUS 127, STAT 130, STAT 140, STAT 146
3. Four (4) units from STAT 147, STAT 157
4. Four (4) additional units from 2. or 3. above

Of the specified upper-division units, a minimum of 16 must be unique to the minor and may not be used to satisfy major requirements.

No more than 4 units may be in courses numbered 190 through 199.

See Minors under the College of Natural and Agricultural Sciences in the Colleges and Programs section of this catalog for additional information on minors.