STATISTICS: BUSINESS ESSENTIALS, BS

Degree Requirements
Requirements for Students Matriculating in or before Academic Year 2021-2022. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

Code | Title | Hours
--- | --- | ---

### General Education Requirements

#### English Composition

See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)

ENGL 1113 Composition I 3
or ENGL 1313 Critical Analysis and Writing I

Select one of the following: 3

- ENGL 1213 Composition II
- ENGL 1413 Critical Analysis and Writing II
- ENGL 3323 Technical Writing

#### American History & Government

HIST 1103 Survey of American History 3
or HIST 1483 American History to 1865 (H)
or HIST 1493 American History Since 1865 (DH)

POLS 1113 American Government 3

#### Analytical & Quantitative Thought (A)

MATH 2144 Calculus I (A) 4
MATH 2153 Calculus II (A) 3

#### Humanities (H)

Courses designated (H) 6

#### Natural Sciences (N)

Must include one Laboratory Science (L) course.
Courses designated (N) 6

#### Social & Behavioral Sciences (S)

SPCH 2713 Introduction to Speech Communication (S) 3
MGMT 3013 Fundamentals of Management (S) 3

### Additional General Education

Courses designated (A), (H), (N), or (S) 3

### Hours Subtotal

40

#### Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

### College/Departmental Requirements

#### First-Year Seminar

(Transfer students with 15 hours exempt) 1

#### Arts & Humanities

See note 2.a. 3

#### Natural & Mathematical Sciences

### Major Requirements

Minimum GPA 2.50 with a minimum grade of "C" in each course.
No more than 29 hours from ACCT, BADM, ECON, EEE, FIN, LSB, MKTG, MSIS may be applied to the degree.

#### Statistics Core Courses:

- CS 1103 or CS 1113 Computer Programming (A) 3
- CS 2133 or MATH 2233 Differential Equations 3
- CS 3513 or CS 4513 Numerical Methods for Digital Computers 3
- or Numerical Mathematics: Analysis 3

#### Foreign Language

0-6 hours. See note 3.

#### Upper-Division General Education

Select 6 hours outside major department. See note 2.c.

### Hours Subtotal

13

#### Major Requirements

### Minimum GPA 2.50 with a minimum grade of "C" in each course.
No more than 29 hours from ACCT, BADM, ECON, EEE, FIN, LSB, MKTG, MSIS may be applied to the degree.

#### Statistics Core Courses:

- MATH 2163 Calculus III 3
- MATH 3013 Linear Algebra (A) 3
- STAT 4013 Statistical Methods I (A) 3
- STAT 4023 Statistical Methods II 3
- STAT 4043 Applied Regression Analysis 3
- STAT 4193 SAS and R Programming 3
- STAT 4203 Mathematical Statistics I 3
- STAT 4213 Mathematical Statistics II 3
- STAT 4981 Statistics Capstone I 1
- or STAT 4991 Statistics Capstone II 1

#### Area of Application:

9 hours to be selected from upper-division CS, ECON, FIN, IEM, MATH, MSIS, STAT (no more than 3 hours of STAT 4980).

#### Business Essentials Concentration:

- ACCT 2003 Survey of Accounting 3
- MKTG 3213 Marketing (S) 3
- 3 hours from:
  - ECON 2003 Microeconomic Principles for Business 3
  - EEE 2023 Introduction to Entrepreneurship 3
  - LSB 3213 Legal and Regulatory Environment of Business 3
  - MSIS 2103 Business Data Science Technologies 3

### Hours Subtotal

43

#### Electives

Select 24 hours.

May need 6 hours of a foreign language. See note 3.
May need to include 6 hours upper-division general education outside major department. See note 2.c.

MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144.

### Hours Subtotal

24

### Total Hours

120

### Other Requirements

- See the College of Arts and Sciences Requirements.
- **Upper-Division Credit**: Total hours must include at least 40 hours in courses numbered 3000 or above.
• **Hours in One Department:** For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.

### College of Arts and Sciences Requirements

1. **General Education Requirements**
   No more than two courses (or eight hours) from the major department (http://catalog.okstate.edu/college-arts-sciences-major-departments/) may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

2. **A&Ś College/Departmental Requirements**
   a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
   b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.
   c. The required six hours of upper-division General Education may not include courses from the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
   d. Non-Western Studies Requirement for B.A. and B.F.A.: One 3-hour course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
   e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3. **Foreign Language Proficiency**
   a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
   b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
   c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4. **Exclusions**
   a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum allowed from one department.
   b. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

5. **Teacher Certification**
   Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences advisor and the OSU Professional Education Unit in room 325 Willard.

### Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence field completed at OSU.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2027.

### Example Plan of Study

**Finish in Four Plan of Study**

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2144</td>
<td>Calculus I (A)</td>
<td>4</td>
</tr>
<tr>
<td><strong>General Education and Elective courses (MSIS 2103 recommended)</strong></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 2153</td>
<td>Calculus II (A)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2003</td>
<td>Microeconomic Principles for Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2003</td>
<td>Survey of Accounting</td>
<td>3</td>
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</table>

General Education courses: 6 hours

Hours: 15

### Sophomore

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 2163</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4013</td>
<td>Statistical Methods I (A)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 3013</td>
<td>Fundamentals of Management (S)</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education courses: 6 hours

Hours: 15

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3013</td>
<td>Linear Algebra (A)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4023</td>
<td>Statistical Methods II</td>
<td>3</td>
</tr>
<tr>
<td>CS 1103 or CS 1113</td>
<td>Computer Programming (A) or Computer Science I (A)</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3213</td>
<td>Marketing (S)</td>
<td>3</td>
</tr>
</tbody>
</table>

College and Elective courses: 3 hours

Hours: 15

### Junior

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 4193</td>
<td>SAS and R Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 2133 or MATH 2233</td>
<td>Computer Science II or Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

3 hours from Area of Application: 3 hours

Major, College, and Elective courses: 6 hours

Hours: 15

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 4043</td>
<td>Applied Regression Analysis</td>
<td>3</td>
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</table>

3 hours from Area of Application: 3 hours

Major, College, and Elective courses: 9 hours

Hours: 15

### Senior

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 4203</td>
<td>Mathematical Statistics I</td>
<td>3</td>
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### Total Hours: 120