# STATISTICS: BUSINESS ESSENTIALS, BS

## Degree Requirements

**Requirements for Students Matriculating in or before Academic Year 2023-2024.** 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* | | |
| CS 1103 | Computer Programming (A) | 3 |
| or CS 1113 | Computer Science I (A) | |
| CS 2133 | Computer Science II | 3 |
| or MATH 2233 | Differential Equations | |
| CS 3513 | Numerical Methods for Digital Computers | 3 |
| or CS 4513 | Introduction to Numerical Analysis | |
| *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, MGMT, 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 | |
| *Area of Application:* | | |
| 9 hours to be selected from upper-division CS, ECON, FIN, IEM, MATH (excluding MATH 3303, 3404, or 3603), MSIS, STAT (no more than 3 hours of STAT 4980). | | 9 |
| ACCT 2003 | Survey of Accounting | 3 |
| MKTG 3213 | Marketing (S) | 3 |
| 3 hours from: | | 3 |
| ECON 2003 | Microeconomic Principles for Business | |
| EEE 2023 | Introduction to Entrepreneurship | |
| LSB 3213 | Legal and Regulatory Environment of Business | |
| MSIS 2103 | Business Data Science Technologies | |
| **Hours Subtotal** | | **43** |
| **Electives** | | |
| Select 24 hours. | | 24 |
| 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.

# College of Arts and Sciences Requirements

1. **Hours in One Department:** For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. 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 required from one department.

2. **A&S 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, BIOC, 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. Six upper-division hours are required from General Education or any CAS courses outside the student's major department (http://catalog.okstate.edu/college-arts-sciences-major-departments/). 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 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. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.
   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**. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

# 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 hours.
- 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 2029.

# 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.

| Course | Title | Hours |
|---|---|---|
| **Freshman** | | |
| **Fall** | | |
| MATH 2144 | Calculus I (A) | 4 |
| General Education and Elective courses (MSIS 2103 recommended) | | 11 |
| | **Hours** | **15** |
| **Spring** | | |
| MATH 2153 | Calculus II (A) | 3 |
| ECON 2003 | Microeconomic Principles for Business | 3 |
| ACCT 2003 | Survey of Accounting | 3 |
| General Education courses | | 6 |
| | **Hours** | **15** |
| **Sophomore** | | |
| **Fall** | | |
| MATH 2163 | Calculus III | 3 |
| STAT 4013 | Statistical Methods I (A) | 3 |
| MGMT 3013 | Fundamentals of Management (S) | 3 |
| General Education courses | | 6 |
| | **Hours** | **15** |
| **Spring** | | |
| MATH 3013 | Linear Algebra (A) | 3 |
| STAT 4023 | Statistical Methods II | 3 |

| CS 1103 | Computer Programming (A) | 3 |
| or CS 1113 | or Computer Science I (A) | |
| MKTG 3213 | Marketing (S) | 3 |
| College and Elective courses | | 3 |
| | **Hours** | **15** |
| **Junior** | | |
| **Fall** | | |
| STAT 4193 | SAS and R Programming | 3 |
| CS 2133 | Computer Science II | 3 |
| or MATH 2233 | or Differential Equations | |
| 3 hours from Area of Application | | 3 |
| Major, College, and Elective courses | | 6 |
| | **Hours** | **15** |
| **Spring** | | |
| STAT 4043 | Applied Regression Analysis | 3 |
| 3 hours from Area of Application | | 3 |
| Major, College, and Elective courses | | 9 |
| | **Hours** | **15** |
| **Senior** | | |
| **Fall** | | |
| STAT 4203 | Mathematical Statistics I | 3 |
| CS 3513 | Numerical Methods for Digital Computers | 3 |
| or CS 4513 | or Introduction to Numerical Analysis | |
| STAT 4981 | Statistics Capstone I (if Grad School bound) | 1 |
| 3 hours from Area of Application | | 3 |
| Major, College, and Elective courses | | 5 |
| | **Hours** | **15** |
| **Spring** | | |
| STAT 4213 | Mathematical Statistics II | 3 |
| STAT 4991 | Statistics Capstone II (if Industry bound) | 1 |
| Major, College, and Elective courses | | 11 |
| | **Hours** | **15** |
| | **Total Hours** | **120** |