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) 3

DATA SCIENCE, 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 3
ENGL 1213  Composition II 3
or ENGL 1413  Critical Analysis and Writing II 3
or ENGL 3323  Technical Writing 3
American History & Government
HIST 1103  Survey of American History 3
or HIST 1483  American History to 1865 (H) 3
or HIST 1493  American History Since 1865 (DH) 3
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
Additional General Education
Courses designated (A), (H), (N), or (S) 6
Hours Subtotal 40

Foreign Language
0-6 hours. See note 3.
Upper-Division General Education
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, LSIB, 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 1

Data Science
MSIS 2103  Business Data Science Technologies 3
MSIS 3103  End User Database Systems Design and Management 3
or MSIS 3333  Database Systems Development 3
STAT 4463  Statistical Machine Learning with R 3
Select 9 hours from the following: 9
MSIS 2203  Computer Programming for Business 3
MSIS 3223  Principles of Data Analytics 3
MSIS 3233  Management Science - Prescriptive Analytics 3
MSIS 3243  Descriptive Analytics 3
MSIS 3393  Advanced Spreadsheet Modeling and Programming 3
MSIS 4263  Business Intelligence and Predictive Analytics 3
MSIS 4623  Data Science Programming 3
MSIS 4673  Data Visualization 3
STAT 4980  Internship in Statistics (max 3 hours) 3
STAT 5053  Time Series Analysis 3
Select 6 additional hours from Data Science courses or 6 hours from any upper-division CS, MATH (excluding MATH 3303, 3404, or 3603), MKTG, MGMT, MSIS, or STAT. 6
Hours Subtotal 49
Electives
18 hours
May need to include 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.) 18
MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144.

<table>
<thead>
<tr>
<th>Hours Subtotal</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours</td>
<td>120</td>
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## 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. 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.