GEOSPATIAL INFORMATION SCIENCE, BS

Requirements for Students Matriculating in or before Academic Year 2018-2019. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</td>
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<td>Select one of the following:</td>
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<td>3</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td>3</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
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American History & Government

HIST 1103 | Survey of American History | 3 |
| POLS 1113 | American Government | 3 |

Analytical & Quantitative Thought (A)

MATH 2144 | Calculus I (A) | 1 |
| Select one of the following: | | 3 |
| ENGL 2113 | Composition II | 3 |
| ENGL 1413 | Critical Analysis and Writing II | 3 |
| ENGL 3323 | Technical Writing | 3 |

Humanities (H)

Courses designated (H) | 6 |

Natural Sciences (N)

Must include one Laboratory Science (L) course

GEOG 1114 | Physical Geography (LN) | 1 |
| Select 6 hours upper-division GEOG courses | 6 |
| Select 6 hours upper-division (non-GEOG) departmental approved related courses | 6 |

Hours Subtotal | 46 |

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

MATH 2153 | Calculus II (A) | 3 |
| CS 1113 | Computer Science I (A) | 3 |
| Select 3 additional hours | 3 |

See note 2.b.

Foreign Language

Upper-Division General Education

Select 6 hours outside major department

See note 2.c.

Hours Subtotal | 13 |

Major Requirements

Minimum GPA 2.50. Minimum GPA in all GEOG courses 2.0.

Core courses

GEOG 2344 | Digital Tools for Environmental Exploration (LN) | 4 |
| GEOG 3333 | Spatial Analysis (A) | 3 |
| GEOG 4203 | Fundamentals of Geographic Information Systems | 3 |
| GEOG 4323 | Computer Cartography | 3 |
| GEOG 4333 | Remote Sensing | 3 |
| GEOG 4343 | Geographic Information Systems: Resource Management Applications | 3 |
| GEOG 4353 | Geographic Information Systems: Socioeconomic Applications | 3 |
| GEOG 4943 | Geospatial Information Science Internship/Research Capstone | 3 |
| CS 2133 | Computer Science II | 3 |
| CS 2433 | C/C++ Programming | 3 |
| Select one of the following: | | 3 |
| STAT 2013 | Elementary Statistics (A) | 3 |
| STAT 2023 | Elementary Statistics for Business and Economics (A) | 3 |
| STAT 2053 | Elementary Statistics for the Social Sciences (A) | 3 |

Select 6 hours upper-division GEOG courses

Select 6 hours upper-division (non-GEOG) departmental approved related courses

Hours Subtotal | 46 |

Electives

Select 21 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.) and 7 additional upper-division hours

Hours Subtotal | 21 |

Total Hours | 120

1 College and Departmental Requirements that may be used to meet Gen Ed Requirements.

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: Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.
College of Arts and Sciences
Requirements

1. General Education Requirements
   No more than two courses (or eight hours) from the major
department 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&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. 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.

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
   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
  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 2024.