

GEOGRAPHY

B.S. Degree Requirements

Option III: Geographic Information Science and Technology (GIS&T)

GENERAL UNIVERSITY REQUIREMENTS

COMMUNICATION (9)

- _____ ENGL 111X (3)
- _____ ENGL 211X or 213X (3)
- _____ COMM 131X or 141X (3)

PERSPECTIVES ON THE HUMAN CONDITION (18-22)

Complete the 6 courses listed **OR**:
 Complete 4 courses, plus 2 semester-length courses (10 cr.) in a single AK Native or other non-English language or 3 semester-length courses (9 cr.) in American Sign Language.

- _____ ANTH/SOC 100X (3)
- _____ ECON/PS 100X (3)
- _____ HIST 100X (3)
- _____ ART/MUS/THR 200X or HUM 201X or ANS 202X (3)
- _____ ENGL/FL 200X (3)
- _____ BA 323X or COMM 300X or JUST 300X or NRM 303X or PHIL 322X or PS 300X (3)

Language option as listed above:
 _____ () _____ () _____ ()

MATHEMATICS (6-7)

- _____ Complete 1 of the following calculus courses:
 MATH 200X, 201X, 202X, 262X, 272X (3-4) ^{***}
- _____ Complete 1 MATH/CS/STAT elective:
STAT 200X or 300** (3)

NATURAL SCIENCES (16)

Complete any two 4-credit Core Natural Science courses AND a one-year sequence in 1 natural science beyond the core. Total coursework must represent at least two different natural sciences.

- **ALL COURSES BELOW ARE PRE-REQS FOR MAJOR**
- _____ _____ (4) _____ _____ (4)
 - _____ GEOG 211X** (4) _____ _____ (4)

LIBRARY & INFO SKILLS (0-1)

- _____ LS competency test or
- _____ LS 100X or 101X (1)

COMPLETE 2 DESIGNATED (W) AND 1 (O) COURSE

- _____ GEOG 490W,O** (W) _____ _____ (W)
- _____ GEOG 490W,O** (O)

****Courses required by major or as pre-reqs that also satisfy university core requirements**

UPPER DIVISION CREDITS (39 cr. At 300-level or above)

Transfer Upper-Division Credits: _____
 UAF Upper-Division Credits (minimum of 24): _____
 TOTAL Upper-Division Credits TO DATE: _____
 Upper-Division Credits TO BE COMPLETED: _____

Credits for core/general requirements:	49-55
Credits required for major:	48-51
Electives credits:	<u>14-23</u>
Total credits required for degree	120

B.S. OPTION III (GIS&T) MAJOR REQUIREMENTS*

Geography Foundation Courses Complete all (16)

- _____ GEOG 101 (3) Local/Global: Intro to Geography
- _____ GEOG 211X (4) Physical Geography w/Lab[†]
- _____ GEOG 312 (3) People, Places & Env: Human Geog.[†]
- _____ GEOG 338 (3) Introduction to GIS
- _____ GEOG 490W,O (3) Geography Seminar^{***}

B. GIS & Tech Breadth Complete the following (15)

- _____ CS 103 (3) Introduction to Computer Programming^{**}
- _____ STAT 200X (3) Elementary Probability and Statistics^{**}
- _____ GEOG 339 (3) Maps and Landscape Analysis^{***}
- _____ GEOG 435 (3) GIS Analysis
- _____ GEOG 300 (3) Internship Nat. Res. and Geography[†]

C. Remote Sensing Complete at least two courses (6-7)

- _____ GE 471 (3) Remote Sensing for Engineering^{***}
- _____ GEOS 422 (3) Geoscience Applic. of Remote Sensing^{**}
- _____ GEOS 434 (3) Remote Sensing of Cryosphere^{***}
- _____ NRM 641 (4) Remote Sensing Applic. in Natural Res.[†]

D. Geographic Information Complete at least two (6-7)

- _____ GE 376 (3) GIS in Geological and Env. Engineering^{**}
- _____ GEOG 309 (4) Cartography
- _____ GEOS 458 (3) Geoscience Apps. of GPS & GIS[†]
- _____ NRM 638 (3) GIS Programming[†]

E. Landscape Complete at least two courses (5-6)

- _____ BIOL 4690 (3) Landscape Ecology Wildlife Habitat^{***}
- _____ GEOS 304 (3) Geomorphology[†]
- _____ GEOS 408 (2) Photogeology^{***}
- _____ GEOS 430 (3) Statistics and Data Analysis in Geology^{***}

MINOR (optional): _____ (Min. 15 cr.)

- _____ () _____ ()
- _____ () _____ ()
- _____ () _____ ()

ELECTIVES (for a total of 120 credits) Must be approved

- _____ () _____ ()
- _____ () _____ ()
- _____ () _____ ()
- _____ () _____ ()

^{*}Grades of at least "C" required for all courses in the major.
[†]Prerequisite required from within the degree program.
^{**}Prerequisite required from outside the degree program.
^{***}Two or more prerequisite courses.