

Land Use, B.S., Geographic Information Systems (GIS) Concentration

Department of Earth & Atmospheric Sciences, 303-556-3143, Science 2028

College of Letters, Arts, and Sciences

Catalog 14-15

This sheet applies to the 2014-15 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	33 min
Major courses	65
Electives	22
Total to graduate (min. 40 hrs upper-division)	120 min

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

*TO BE COMPLETED WITHIN FIRST 30 COLLEGE-LEVEL CREDIT HOURS

Written Communication

- ___ ENG 1010 (3 hrs) Composing Arguments*
or ENG 1008/1009 (6 hrs.) Intro to Composition, Parts 1 & 2*
___ ENG 1020 (3 hrs) Freshman Comp: Analysis, Research, & Documt.
(ENG 1020 must be completed within 45 credit hours)

Oral Communication*

- ___ (3 hrs)

Quantitative Literacy*

- ___ (3 hrs.)

Arts and Humanities

- ___ (3 hrs.)
___ (3 hrs.)

Historical

- ___ (3 hrs.)

Natural and Physical Sciences

- ___ (3 hrs.)
___ (3 hrs.)

Social and Behavioral Sciences I

- ___ (3 hrs.)

Social and Behavioral Sciences II

- ___ (3 hrs.)

Global Diversity

- ___ (3 hrs.) may be satisfied within General Studies

___ **Multicultural Requirement**

may be satisfied in Gen Studies, major, minor, or electives

MAJOR CORE COURSES (Please see LUS Advisor in EAS department)

- ___ GEG 1220 (2 hrs) Map Use
___ GEG 1610 (1 hr) Introduction to Planning
___ GEL 1010 (4 hrs) Physical Geology
OR GEG 1100 (3 hrs) Introduction to Physical Geography
___ GEG 4950 (2-15 hrs) Internship in Land Use
OR GEL 4950 (2-15 hrs) Internship in Geology
OR ENV 4950 (2-15 hrs) Internship in Environmental Science
___ GIS 2250 (3 hrs) Introduction to GIS (CIS 1010 is a prereq for this)
___ MTH 1210 (4 hrs) Introduction to Statistics

Geographic Information Systems (GIS) Concentration:

Students must complete each course with a grade of "C" or better. The course cannot be taken pass/fail.

- ___ GEG 3610 (3 hrs) Principles of Land Use Planning
___ GIS 2710 (2 hrs) Global Positioning Systems
___ GIS 3250 (3 hrs) Cartography
___ GIS 4840 (3 hrs) Remote Sensing
___ GIS 4850 (4 hrs) Spatial Modeling in Raster
___ GIS 4860 (4 hrs) GIS Applications
___ GIS 4870 (3 hrs) Spatial Databases
___ GIS 4890 (3 hrs) Advanced GIS Project

Select from the following to a total of 46 hrs.

- ___ GIS 4880 (variable hrs) Current Topics in GIS: Variable Topics
___ MTH 3240 (4 hrs) Environmental Statistics
___ CSS 1247 (4 hrs) Introduction to Programming: Visual Basic

Because GIS is an application tool, students are required to specialize in an **area of interest**. A student can select one of the following interest areas (Environment, Meteorology, Planning, Resources) or design one with the approval of an LUS advisor in EAS dept or select a minor in Computer Science (School of Letters, Arts and Sciences); Computer Information Systems, General Business, International Business, Marketing (School of Business), or Criminal Justice and Criminology (School of Professional Studies).

Areas of Interest - See catalog and work with your LUS faculty advisor in EAS

- ___ Environment (19 hrs, See Catalog for approved courses)
OR Meteorology (19 hrs, See Catalog for approved courses)
OR Planning (19 hrs, See Catalog for approved courses)
OR Resources (19 hrs, See Catalog for approved courses)
OR Surveying and Mapping (19 hrs, See Catalog for approved courses)