

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 15-16

This sheet applies to the 2015-16 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

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

Major courses

65

Electives

22

Total to graduate (min. 40 hrs upper-division)

120 min

*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) (see faculty advisor)

MTH 1110 (4 hrs.) College Algebra or higher preferred

OR MTH 1400 (4 hrs.) Precalculus Mathematics

OR MTH 1410 (4 hrs.) Calculus I

Arts and Humanities

___ (3 hrs.)

___ (3 hrs.)

Historical

___ (3 hrs.)

Natural and Physical Sciences Cannot take ENV, GEG, GEL or SCI courses

___ (3 hrs.)

___ (3 hrs.)

Social and Behavioral Sciences I Cannot take GEG courses

___ (3 hrs.)

Social and Behavioral Sciences II

___ (3 hrs.)

Global Diversity

___ 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 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 1220 (3 hrs.) Introduction to Geospatial Science

___ GIS 2250 (3 hrs.) Geographic Information Systems

___ 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 (Senior Level Capstone)

Select from the following (minimum 5 hrs.)

___ GIS 4880 (1-3 hrs.) Current Topics in GIS: Variable Topics

___ MTH 3240 (4 hrs.) Environmental Statistics

___ CSS 1247 (4 hrs.) Introduction to Programming: Visual Basic

As GIS is an application tool, students are required to specialize in an **area of interest**.

A student can select one of the following: Environment, Meteorology, Planning, Resources or design one with 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)

Electives