Geographic Information Science (GIS) Minor (Non-Teaching)

The GIS (Geographic Information Science) Minor in the Department of Earth Sciences recognizes the growing importance of Geographic Information Systems and Science in our society and how these analytic tools are used in a wide variety of disciplines. The GIS Minor takes advantage of excellent GIS facilities, lab space, expertise, and software available on campus and allows students to learn in an active hands-on environment. The GIS Minor is rooted in a core of 5 courses that include concepts in cartography, spatial data principles, spatial data modeling, spatial analysis/synthesis/modeling, GPS mapping, and remote sensing. Focused electives allow students to explore topics in related disciplines including statistics, surveying, and computer aided design.

Not Available to Geography Majors

GPHY 284 Intro to GIS Science & Cartog 3
GPHY 384 Adv GIS and Spatial Analysis 3
GPHY 484R Applied GIS & Spatial Analysis 3
GPHY 357 GPS Fund/App in Mapping 3
Take ONE of the following: 3
GPHY 426 Remote Sensing
GPHY 429R Applied Remote Sensing
Take ONE of the following: 3
STAT 217 Intermediate Statistical Concepts
STAT 337 Intermediate Statistics with Introduction to Statistical Computing
STAT 332 Statistics for Scientists and Engineers
Take TWO or THREE of the following: 4 or 5
SRVY 230 Intro to Surveying for Engineers
STAT 408 Statistical Computing and Graphical Analysis
STAT 446 Sampling
LSCI 342 Data Curation for a Data-Driven World
LSCI 470 Ethics and Privacy in the Age of Big Data
CSCI 440 Database Systems
SRVY 375 Analytic Photogrammetry and Remote Sensing
GPHY 492 Independent Study

Total Credits 22 or 23

Note: A C- minimum is required in all curriculum courses to graduate by Regents’ policy. This includes electives in the curriculum.