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 216Q	Introduction to Statistics	
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.