



This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

**Catalog:** 2025-26**Total Units:** 28**Start Term:** Spring

## First Year

### Semester 1 (Spring)

**6 Units**

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>GEOG 330</b> Introduction to Geographic Information Systems	3	
Req	<b>GEOG 334</b> Introduction to GIS Software Applications	3	

### Semester 2 (Fall)

**6 Units**

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>GEOG 340</b> Cartographic Design for GIS	3	GEOG 330
Req	<b>GEOG 360</b> Database Design and Management in GIS	3	GEOG 330

## Second Year

### Semester 3 (Spring)

**9 Units**

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>GEOG 342</b> Introduction to Remote Sensing and Digital Image Processing	3	GEOG 330
Req	<b>GEOG 344</b> Spatial Analysis and Modeling in GIS	3	GEOG 330
RE	<b>GEOG 362</b> Advanced Database Design and Management in GIS	3	GEOG 360

### Semester 4 (Fall)

**7 Units**

CAT.	COURSE	UNIT	PREREQUISITES
Req	<b>GEOG 350</b> Data Acquisition in GIS	3	GEOG 330
RE	<b>GEOG 385</b> Introduction to Web Based GIS Application Development	3	GEOG 330
Req	<b>GEOG 498</b> Work Experience in Geography	1	

## CAREER PATH

### Career Options:

We prepare our students for careers as GIS Specialists, Technicians, and Analysts. Many students enter the program with expertise in a different field, such as biology, geology, public health, or archaeology, and augment their expertise with GIS skills learned in our program.

Our graduates work primarily for government agencies including the Cities of Sacramento, Roseville, and Folsom; State of California agencies including Fish and Wildlife, Water Resources, and Department of Health; county agencies including the Counties of Sacramento, Yolo, and El Dorado; federal agencies including Environmental Protection, Geological Survey, and National Parks; and public safety agencies including Fire, Police, and Emergency Services. Other employers include engineering, archaeological, and consulting firms.

### Scheduling Notes:

- All in-person classes begin at 6:00 PM, except GEOG 330 which is offered at 6:00 PM and 1:00 PM.
- GEOG 350, 360, and 385 are offered in the fall.
- GEOG 342 and 362 are offered in the spring.

### Other Notes:

- An internship (GEOG 498) is required as it opens up potential employment opportunities. Students can earn at least 1 unit for related paid or unpaid work experience including volunteer and internship positions through GEOG

### EXPLANATION OF CATEGORIES

<b>Req</b>	Required Core	A course that is required for this program
<b>RE</b>	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list

498. See the [Work Experience website](#) for more information.

Published April 12, 2025