

Geographic Information Systems (GIS) Certificate

Harper College

A US Department of Labor  Occupation

What is GIS?

Geographic Information Systems (GIS) is a suite of technologies, processes, and expertise used to **understand our world** and **solve problems** using geography (location)



*Virtually **all domains** that use location information use GIS*

GIS – A Bright Outlook Occupation

- US Department of Labor Bright Outlook Geospatial Technology Occupations
 - GIS Technicians
 - Geospatial Information Scientists and Technologists
 - Remote Sensing Technicians
 - Precision Agriculture Technicians



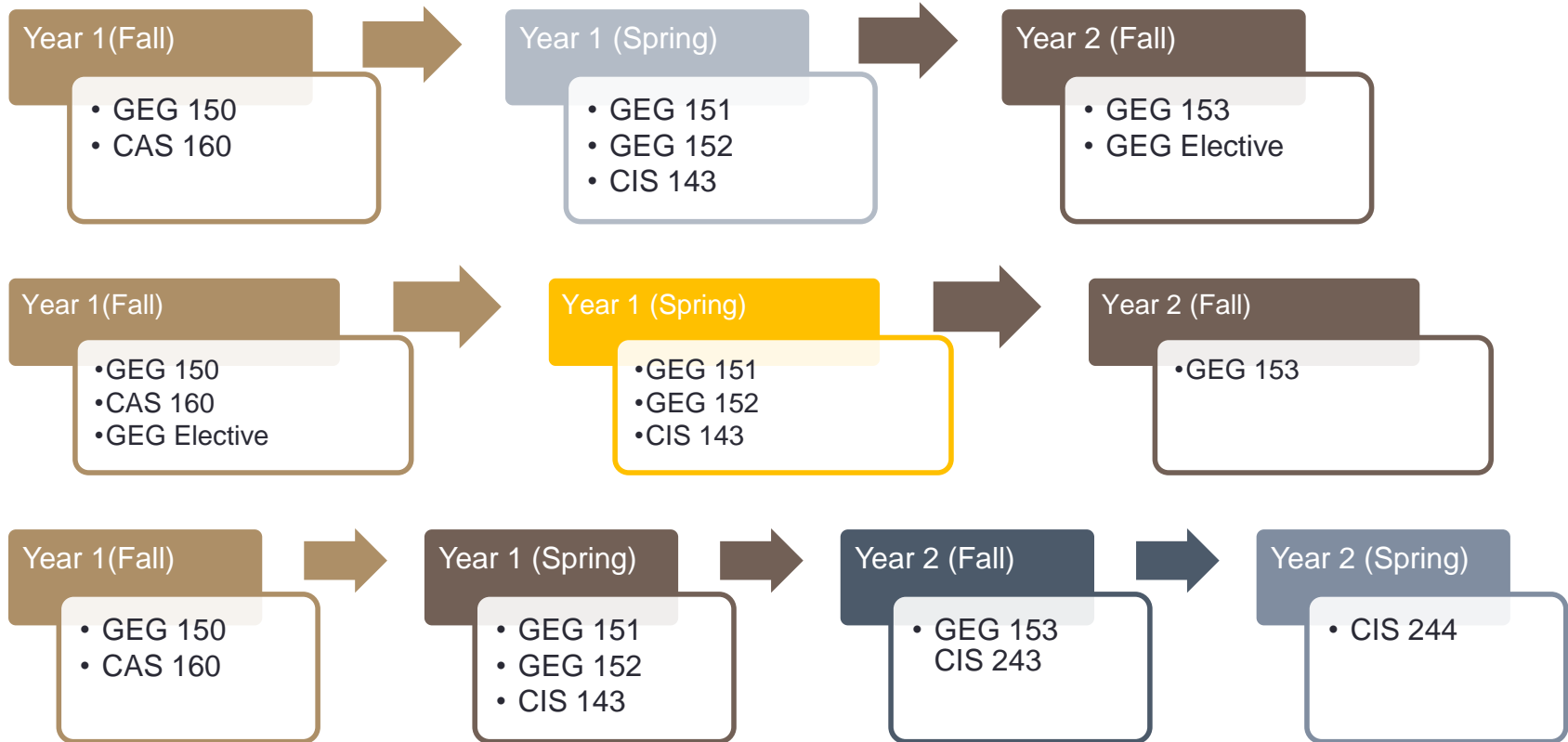
- Bright Outlook occupations match at least of the following criteria:
 - Projected to grow much faster than average (employment increase of 29% or more) over the period 2010-2020
 - Projected to have 100,000 or more job openings over the period 2010-2020
 - New & Emerging occupation in a high growth industry

The Certificate – Courses and Credit Hours

			Credit Hours
Required	Hours: 18		
	GEG 150	GIS and Mapping Principles	3
	GEG 151	Geographic Information Systems I	3
	GEG 152	Geographic Information Systems II	3
	GEG 153	Applications for GIS	3
	CAS 160	Introduction to Business Software Packages	3
	CIS 143	Introduction to Database Systems	3
Electives	Hours: 3-6		
	GEG 101	World Regional Geography	3
	GEG 103	The Developing World	3
	GEG 111	Physical Geography	3
	CIS 243	Database Administration	3
	CIS 244	Database Design and Implementation	3
		Total Certificate Hours:	21-24

Note: The two CIS electives could lead to a Database Management Certificate.

Sample Course Sequences



3rd sequence applies to students also seeking a CIS Database Certificate

For more Information Contact

Mukila Maitha
Assistant Professor
Coordinator, GIS
Geography Department
Harper College
847-925-6521
mmaitha@harpercollege.edu