

GEOGRAPHIC INFORMATION SCIENCE, A.S.

The Geographic Information Science (GIS) non-transfer AS degree prepares students for GIS-related careers. For students currently working within these fields, there may be potential for salary and/or career advancement. In addition to the 24-30 units of Geographic Information Science courses, students must also complete all MSJC General Education Option A requirements (a total of 60 units) for the Associate of Science degree in Geographic Information Science.

AS.GEOG.GIS

Program Map Design Your Future!

Begin by exploring MSJC program maps to find career or transfer (<https://msjc.emsicc.com/?radius=®ion=All%20Regions>) opportunities. Program maps show the recommended course sequence that leads to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

MSJC General Education Option A

Fall Semester 1		Units
GEOG-115	Introduction to Geographic Information Science	2
GIS-540	Introduction to sUAS (Drone) Systems ¹	3
GIS-550	Introduction to sUAS (Drone) Systems Use in Remote Sensing ²	3
ENGL-101	College Composition	3
CSCR-100	College Success and Career Readiness	3
Units		14

Spring Semester 1		Units
GIS-520	Intermediate Geographic Information Science (formerly GEOG-520)	4
CSIS-116E or CSIS-514A	Python Programming - Level 1 or SQL Programming - Level 1 (formerly CSIS-114A)	3
MATH-140	Introduction to Statistics ³	3
ART-131	Introduction to Digital Art	3
GEOG-105	Map Interpretation and Spatial Analysis	3
Units		16

Summer 1		Units
ENVS-101	Environmental Science	3
Units		3

Fall Semester 2		Units
GIS-525	Advanced Geographic Information Science (formerly GEOG-525)	3
GIS-586	GIS for Web Applications (formerly GEOG-586)	3

PS-101	Introduction to American Government and Politics	3
GIS-583	Spatial Database Design and Management (formerly GEOG-583)	3
DIG-110	Introduction to Digital Media	3

Units 15

Spring Semester 2

GEOG-111	Geography of California	3
GIS-551	Digital Imaging with sUAS (Drone) Systems I	3
GIS-580	Geospatial Information Systems Practicum I (formerly GEOG-080)	2
GIS-584 or GIS-585 or GIS-552	Water Management with GIS (formerly GEOG-584) or GIS for Catastrophes (formerly GEOG-585) or Digital Imaging with sUAS (Drone) Systems II	3

Select one of the following: 3

PS/ETHS-103	Ethnic Politics in America	
ETHS-112	Introduction to Chicana/o/x Studies	
ETHS/SJS-113	Introduction to Black Studies	
HIST/ETHS-160	Black History in the American Context	
LIT/ETHS-240	American Indian Literature (formerly ENGL-240)	
LIT/ETHS-275	Latinx/Chicanx Literature	
LIT/ETHS-280	Multiethnic Literature (formerly ENGL-280)	
ANTH/HIST-121	Indigenous Peoples of California	

Units 14

Total Units 62

¹ Take first 8 weeks

² Take second 8 weeks

³ **AREA G (Math Competency) can be demonstrated by a high school math course at or above the level of Algebra 2 with a grade of C or better.**

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Requirements

An Associate Degree in this program requires students to complete MSJC's local General Education, Option A, by fulfilling all general education areas. In addition, students must complete all major requirements and complete an overall total of 60 degree applicable units with a minimum 2.0 GPA.

Course	Title	Credits
MSJC General Education Option A (https://catalog.msjc.edu/degrees-certificates-curricula/general-education-option-a/)		24
Required Geographic Information Science Courses		14
Geographic Information Science Electives		6
Electives (as needed to reach 60 units)		

Course	Title	Credits
Required Courses		
GEOG-115	Introduction to Geographic Information Science	2
GIS-520	Intermediate Geographic Information Science (formerly GEOG-520)	4
GIS-525	Advanced Geographic Information Science (formerly GEOG-525)	3
GIS-540	Introduction to sUAS (Drone) Systems	3
GIS-550	Introduction to sUAS (Drone) Systems Use in Remote Sensing	3
GIS-551	Digital Imaging with sUAS (Drone) Systems I	3
GIS-583	Spatial Database Design and Management (formerly GEOG-583)	3
GIS-586	GIS for Web Applications (formerly GEOG-586)	3
Elective Courses		
Optional Geographic Information Science Elective Courses		0-6
GIS-552	Digital Imaging with sUAS (Drone) Systems II	
GIS-584	Water Management with GIS (formerly GEOG-584)	
GIS-585	GIS for Catastrophes (formerly GEOG-585)	
DIG-110	Introduction to Digital Media	
Total Units		24-30

Career Exploration

Discover information about careers that interest you!

1. Take a **Career Quiz** (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available **in-demand jobs** (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.
3. Find the **MSJC Program** (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.