MSJC
MT. SAN JACINTO COLLEGE

Geographic Information Science: Associate in Science – Non-Transfer

From local to global scales, geographers study political organization, transportation systems, marketing, economics, climate and weather, urban planning, land use development, globalization, and more. They examine the distribution of landforms, study soils, and vegetation, analyze limited resources such as water, and human impacts on the surface of the planet. In general, geographers work in government research, public agencies, and are environmental consultants for nonprofit organizations.

Please see a Pathways Counselor: Create an education plan customized to meet your needs. Contact a Counselor

Transfer Majors/Award Focus
- Geography, A.A.-T CSU, UC
- Geographic Information Science, A.S.
- Geographic Information Science, Certificate, Focus: General, Fire & Safety, Water Industry

GE Pattern/Units
- GE Pattern: Option A
- Total Units: 60-62

Program maps indicate the major coursework and recommended general education courses to fulfill your degree in 2 years (approximately 15 units/semester or 30 units/year). If you are a part-time student, start Semester 1 courses and follow the course sequence. Some of the courses listed may be substituted by another course. Please view these options in the official course catalog.

Semester 1   *16 Units*

✔	COURSE	TITLE	UNIT
☐	GEOG-105	Map Interpretation and Spatial Analysis	3
☐	ENGL-101	College Composition	4
☐	PS-101	Introduction to American Government and Politics	3
☐	LEAD-500 or GUID-116	Leadership Development or Integrative Career/Life Planning	3
☐	GEOG-582	Programming for GIS	3

Semester 2   *15 Units*

✔	COURSE	TITLE	UNIT
☐	GEOG-115	Introduction to Geographic Information Science	3
☐	CSIS-116E or CSIS-114A	Python Programming - Level 1 or SQL Programming - Level 1	3
☐	MATH-140	Introduction to Statistics	3
☐	CSIS-126E or CSIS-124A	Python Programming - Level 2 [1] or SQL Programming - Level 2	3
☐	GEOG-584	Water Management with GIS	3

[1]Take second 8 weeks

Career Options
Geophysical Data Technicians (B, M)
Geographers (B, M, D)
Geographic Information Systems Technician (B, M)
Find more careers: msjc.emsicc.com
Required Education: SM: some college; C: Certificate; A: Associate,
B: Bachelor's, M: Master's; D: Doctorate

Financial Aid
Financial aid is determined by the number of credit hours you take in a semester. Maximize your financial aid by taking 12-15 units per semester.

Semester 3 — 15 Units

✔	COURSE	TITLE	UNIT
☐	GEOG-520	Intermediate Geographic Information Science	3
☐	COMM-103	Interpersonal Communication	3
☐	GEOG-585	GIS for Catastrophes	3
☐	GEOG-111	Geography of California	3
☐	GEOG-583	Spatial Database Design and Management	3

Semester 4 — 14-16 Units

✔	COURSE	TITLE	UNIT
☐	GEOG-525	Advanced Geographic Information Science (	3
☐	ART-104	World Art	3
☐	GEOG-586	GIS for Web Applications	3
☐	GEOG-107	Urban Geography	3
☐	GEOG-103	Field Studies in Geography	2-4

Work Experience

Sign up for a special project or internship opportunity. Gain work experience and earn credits.