

GEOGRAPHY & GEOGRAPHIC INFORMATION SCIENCE

San Jacinto Campus

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Degree(s)

Transfer:

A.A.-T in Geography for Transfer 31869 Алдеодортваат от 31869 Алдеодортслат

(using General Education Requirements Option B or C)

Non-Transfer:

A.S. in Geographic Information Science 12443 AS.GEOG.GIS (with General Education Requirements Option A)

Certificate(s) Certificate in Geographic Information Science ²²¹⁴⁵ CT.GEOG.GIS

Employment Concentration Certificate(s) Geographic Information Science 99999 ECC.GIS

PROGRAM DESCRIPTION

The A.A.-T in Geography transfers to a four-year college and prepares students for a future in a field related to Geography. The Geographic Information Science (GIS) non-transfer Certificate and AS degree prepares students for GIS related careers which are enhanced by completion of a bachelor or graduate program. For students currently working within these fields there may be potential for salary and/or career advancement.

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 distribution of land forms, 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.

Geographic Information Science (GIS) involves basic to advanced analysis and scientific research methods for identifying patterns, trends and relationships that are represented spatially and temporally on maps, large databases, reports and animations. Recent advancements make it possible to analyze, interact and produce maps using cloud technology. Students enrolled in our GIS courses online have the advantage of learning advanced communication and mapmaking skills that prepare them for a career in GIS, anywhere.

CAREER OPPORTUNITIES

All career opportunities listed are representative careers in each field. There are no guaranteed positions for students completing these programs. (See: www.onetonline.org)

Transfer A.A. Degree

Geography

For any BA/BS careers, please see your transfer institution.

Non-Transfer A.S. Degree

Geographic Information Science

Geospatial Information Scientists and Technologists, Geographic Information Systems Technicians, Remote Sensing Scientists and Technologists, Remote Sensing Technicians, Precision Agriculture Technicians, Geodetic Surveyors, Surveyors, Surveying Technicians, Mapping Technicians, Cartographers and Photogrammetrists, and many discipline related fields with "GIS skills" as an occupational description

Certificate

Geographic Information Science

Geospatial Information Scientists and Technologists, Geographic Information Systems Technicians, Remote Sensing Scientists and Technologists, Remote Sensing Technicians, Precision Agriculture Technicians, Geodetic Surveyors, Surveyors, Surveying Technicians, Mapping Technicians, Cartographers and Photogrammetrists, and many discipline related fields with "GIS skills" as an occupational description

Employment Concentrations

Geographic Information Science

Geospatial Information Scientists and Technologists, Geographic Information Systems Technicians, Remote Sensing Scientists and Technologists, Remote Sensing Technicians, Precision Agriculture Technicians, Geodetic Surveyors, Surveyors, Surveying Technicians, Mapping Technicians, Cartographers and Photogrammetrists, and many discipline related fields with "GIS skills" as an occupational description.

Note: Every effort has been made to keep program information current.



TRANSFER PREPARATION

Geography

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www.assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

Geographic Information Science

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. Courses that fulfill major requirements for an associate degree in this program might not be the same as those required for transfer into the major at a four-year university. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www. assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

LEARNING OUTCOMES

- Explain the interrelationship between humans and the physical environment.
- Appreciate different cultural and ethnic perspectives within the context of environmental opportunities and challenges.
- Apply the scientific method to objective and subjective analysis of cultural and physical environments.
- Explore and critically appreciate spatial relationships at different scales from local, regional to global.
- Integrate spatial thinking with applied technology to analyze physical and cultural patterns, trends and relationships.

DEGREES Transfer A.A.-T Degree

Geography

An Associate in Arts in Geography for Transfer will fulfill the requirements for students to transfer to a four-year college or university as a Geography major.

The major required for an A.A.-T in Geography for Transfer may be met by:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
- A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0.

ADT also requires that students must earn a C or better in all courses required for the major or area of emphasis. A "P" acceptable if pass is defined as a grade of C or better. (Pass) grade is

A.A.-T in Geography for Transfer (18-21 units)

Required Courses (6 units)

GEOG-101 GEOG-102	Physical Geography Cultural Geography	3 units 3 units			
List A: Select two to three (6-8 units)					
GEOG-103	Field Studies in Geography	2-4 units			
GEOG-104	Physical Geography Lab	1 unit			
GEOG-105	Map Interpretation and Spatial Analysis	3 units			
GEOG-106	Introduction to Weather and Climate	3 units			
GEOG-108	World Regional Geography	3 units			
GEOG-111	Geography of California	3 units			
GEOG-115	Introduction to Geographic Information	ı			
	Science	3 units			

List B: Select two (6-7 units)

Any course from List A not used above or one of the following courses:

ANTH-102	Cultural Anthropology	3 units	
or			
ANTH-102H	Honors Cultural Anthropology	3 units	
GEOG-107	Urban Geography	3 units	
GEOL-100	Physical Geology	4 units	
Units for Major		18-21	
CSU General Education or IGETC Pattern		37-39	
Possible double counting		10	
Transferable Electives (as needed to reach 60 CSU transferable			

e units)

Total Units for A.A.-T Degree

This Associate in Arts in Geography for Transfer degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A student completing this degree is guaranteed admission to the CSU system, but not a particular campus or major. Students should meet with a counselor to develop an educational plan and receive university admission and transfer requirements.

Non-Transfer Degree

Geographic Information Science

In addition to the 18 units of the certificate program in Geographic Information Science, 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.

CERTIFICATES

Certificate in Geographic Information Science (18 units)

Required Courses (12 units)

GEOG-105	Map Interpretation and Spatial Analysis	3 units
GEOG-115	Introduction to	
	Geographic Information Science	3 units

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Please use this information as a guide and consult with the chair of the department/program or an MSJC counselor.

60 units



 GEOG-120
 Intermediate Geographic Information

 Science
 3 units

 GEOG-125
 Advanced Geographic Information Science3 units

Elective Courses (minimum 6 units)

Elective courses are identified under the following concentration areas. Students must complete 6 units (any combination) under one concentration area to earn a Certificate in GIS. Once a Certificate in GIS has been earned, additional Certificates in GIS may be awarded for completion of 6 units in other concentration areas.

EMPLOYMENT CONCENTRATIONS

Geographic Information Science (6 units)

GEOG-082	Programming for GIS	3 units		
GEOG-083	Spatial Database Design and Manageme	ent3 units		
GEOG-084	Water Management with GIS	3 units		
GEOG-085	GIS for Catastrophes	3 units		
GEOG-086	GIS for Web Applications	3 units		
GEOG-088	GIS Client-Based Projects	3 units		
GEOG-149/CWE-149N				
	Cooperative Work Experience:			
	Geographic Information Science	1-4 units		



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Mt. San Jacinto College

Undergraduate certificate in Geographic Information Science Program Length: 36 weeks

Students graduating on time

N/A* of Title IV students complete the program within 36 weeks¹ *Fewer than 10 students enrolled in this program. This number has been withheld to preserve the confidentiality of the students.

Program Costs*

\$828 for in-state tuition and fees \$6.138 for out-of-state tuition and fees \$1.971 for books and supplies Other Costs: Parking Permits cost \$68 a year or \$34 a semester RTA Go Pass cost \$12 a year or \$6 a semester SGA discount sticker (optional) - \$14 a year or \$7 a semester Student representation fee (optional) - \$2 a year or \$1 a semester Help a Student Fund (optional) - \$4 a year or \$2 a semester Student Health Center Fee - \$40 a year or \$20 a semester *For summer session fees, please see: https://www.msjc.edu/StudentServices/EnrollmentServices/Pages/What-Fees-do-I-have-to-pay.aspx Visit website for more program cost information: /www.msjc.edu/StudentServices/EnrollmentServices/Pages/What-Fees-do-I-have-to-pay.aspx *The amounts shown above include costs for the entire program, assuming normal time to complete Note that this information is subject to change.

Students Borrowing Money

The typical graduate leaves with N/A* in debt³

n 10 sti time. This number has been withheld to preserve the confidentiality of the student The typical monthly loan payment

N/A* per month in student loans with an interest rate of N/A*4.

has been withheld to preserve the confidentiality of the students this program

Graduates who got jobs

N/A* of program graduates got jobs Program graduates are employed in the following fields: Regulatory Affairs Managers: http://onetonline.org/link/summary/11-9199.01 Compliance Managers: http://onetonline.org/link/summary/11-9199.02 Geographers: http://onetonline.org/link/summary/19-3092.00

Licensure Requirements⁶

The following do not have licensure requirements for this profession: California

Additional Information:

No additional notes provided

Date Created: 5/15/2019

These disclosures are required by the U.S. Department of Educat

Footnotes:

- The share of students who completed the program within 100% of normal time (36 week
- ². The share of students who borrowed Federal, private, and/or institutional loans to help pay for college
- ^{3.} The median debt of borrowers who completed this program. This debt includes federal, private, and institutional loans.
- ⁴. The median monthly loan payment for students who completed this program if it were repaid over ten years at a NA* interest rate.
- 5. The median earnings of program graduates who received Federal aid.
- ⁶. Some States require students to graduate from a state approved program in order to obtain a license to practice a profession in those States

7. State Job Placement Rate:

- Name of the state this placement rate is calculated for: N/A
- Follow the link below to find out who is included in the calculation of this rate:
- What types of jobs were these students placed in?
- When were the former students employed?
- Ν/Δ
- How were completers tracked?

a. Accreditor Job Placement Rate: Name of the accrediting agency this placement rate is calculated for:

- Ν/Δ Follow the link below to find out who is included in the calculation of this rate: What types of jobs were these students placed in? N/A When were the former students employed? N/A How were completers tracked?

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