Degree(s)

Transfer:

A.A.-T in Geography for Transfer
51869 AA.GEOG.OPTBAAT or 51869 AA.GEOG.OPTCAAT
(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.
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” (Pass) grade is acceptable if pass is defined as a grade of C or better.

Transferable Electives (as needed to reach 60 CSU transferable units)
- CSU General Education or IGETC Pattern
- Units for Major: 18-21
- Possible double counting: 10

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

Note: Every effort has been made to keep program information current. Please use this information as a guide and consult with the chair of the department/program or an MSJC counselor.
Instructional Programs

GEOG-120 Intermediate Geographic Information Science 3 units
GEOG-125 Advanced Geographic Information Science 3 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 Management 3 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
Mt. San Jacinto College
Undergraduate certificate in Geographic Information Science
Program Length: 36 weeks

Students graduating on time
NA/1 of Title IV students complete the program within 36 weeks.2
*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
$3,971 for books and supplies
Other Costs:
Parking Permits cost $68 a year or $34 a semester
RTA Go Pass cost $22 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 completion.
Note that this information is subject to change.

Students Borrowing Money
The typical graduate leaves with
NA/3 in debt.3
*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.
The typical monthly loan payment
NA/4 per month in student loans with an interest rate of NA/4.
*Fewer than 10 students completed this program within normal time. This number has been withheld to preserve the confidentiality of the students.

Graduates who got jobs
NA/5 of program graduates got jobs
*We are not currently required to calculate a job placement rate for program completers.
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 Requirements
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 Education

Footnotes:
1 The share of students who completed the program within 150% of normal time (36 weeks).
2 The share of students who borrowed Federal, private, and/or institutional loans to help pay for college.
3 The median student loan debt of borrowers who completed the program. This debt includes Federal, private, and institutional loans.
4 The median monthly loan payment for students who completed this program if 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.

8. Accreditor Job Placement Rate:
Name of the accrediting agency this placement rate is calculated for:
NA
Follow the link below to find out who is included in the calculation of this rate:
NA
What types of jobs were these students placed in?
NA
When were the former students employed?
NA
How were completers tracked?
NA

Note: Every effort has been made to keep program information current.
Please use this information as a guide and consult with the chair of the department/program or an MSJC counselor.