

GEOLOGY, A.S.-T

An Associate of Science in Geology for Transfer will fulfill the requirements for students to transfer to a CSU institution as a Geology major. The courses in the A.S.-T in Geology for Transfer degree will allow students to complete the major preparation for transfer to four year institutions and major in geology or Earth sciences.

AS.GEOL.OPTBAST or AS.GEOL.OPTCAST

Program Map

Design Your Future!

Begin by exploring MSJC program maps to find career or transfer 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.

CSUSB: General Education Option B

Fall Semester 1		Units
ENGL-101	College Composition	3
MATH-211	Analytic Geometry and Calculus I	4
GEOL-100	Physical Geology	4
COMM-100	Public Speaking	3
Units		14

Spring Semester 1		Units
ENGL-103	Critical Thinking and Writing	3
MATH-212	Analytic Geometry and Calculus II	4
CHEM-101	General Chemistry I	5
PS-101	Introduction to American Government and Politics	3
Units		15

Summer 1		Units
PSYC-101	Introduction to Psychology	3
Units		3

Fall Semester 2		Units
CHEM-102	General Chemistry II	5
ART-100	Art Appreciation	3
GEOL-105	Historical Geology	4
HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3
Units		15

Spring Semester 2		Units
BIOL-150 or ENV5-101	General Biology I or Environmental Science	3-4
PHY-201	Mechanics and Wave Motion	4
Select one of the following:		3
PS/ETHS-103	Ethnic Politics in America	
HIST/ETHS-160	Black History in the American Context	
LIT/ETHS-275	Latinx/Chicanx Literature	

LIT/ETHS-280	Multiethnic Literature (formerly ENGL-280)	
ART-104	World Art	3
PHIL-101	Introduction to Philosophy I	3
Units		16-17
Total Units		63-64

Recommended: Students should take courses the summer before the Fall start of the semester.

UC: General Education Option C

Fall Semester 1		Units
ENGL-101	College Composition	3
MATH-211	Analytic Geometry and Calculus I	4
GEOL-100	Physical Geology	4
COMM-100	Public Speaking	3
Units		14

Spring Semester 1		Units
ENGL-103	Critical Thinking and Writing	3
MATH-212	Analytic Geometry and Calculus II	4
CHEM-101	General Chemistry I	5
GEOL-105	Historical Geology	4
Units		16

Summer 1		Units
BIOL-150 or ANTH-101	General Biology I or Biological Anthropology	3-4
PS-101	Introduction to American Government and Politics	3
ART-100	Art Appreciation	3
Units		9-10

Fall Semester 2		Units
CHEM-102	General Chemistry II	5
ART-104	World Art	3
PHY-201	Mechanics and Wave Motion	4
SPAN-101 or FREN-101 or ASL-100	Elementary Spanish I or Elementary French I or American Sign Language I	4
Units		16

Spring Semester 2		Units
Select one of the following:		3
PS/ETHS-103	Ethnic Politics in America	
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)	
PHY-202	Electricity and Magnetism	4
PHY-203	Optics and Modern Physics	4
HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3
PHIL-101	Introduction to Philosophy I	3
Units		17
Total Units		72-73

Recommended: Students should take courses the summer before the Fall start of the semester.

NOTE: For students who did not meet the LOTE requirement in high school, they may fulfill Area 6 by demonstrating proficiency by completing ASL-100 American Sign Language I, FREN-101 Elementary French I or SPAN-101 Elementary Spanish I with a grade C or better. Languages other than English for Native Speakers are also acceptable for meeting this requirement.

Requirements

Course	Title	Credits
Required Core Courses		
GEOL-100	Physical Geology	4
GEOL-105	Historical Geology	4
CHEM-101	General Chemistry I	5
CHEM-102	General Chemistry II	5
MATH-211	Analytic Geometry and Calculus I	4
MATH-212 or MATH-212H	Analytic Geometry and Calculus II Honors Analytic Geometry and Calculus II	4
Total Units		

Course	Title	Credits
Units for Major		26
MSJC General Education Option B or C (https://catalog.msjc.edu/degrees-certificates-curricula/general-education-transfer-requirements/)		
Possible double counting: 9		
Transferable Electives (as need to reach 60 CSU transferable units)		

Total Units for A.S-T Degree: 60 units

The overall requirements for this Associates Degree for Transfer (ADT) can be met by:

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

ADTs also require that students 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. ADTs are intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A student completing an ADT is guaranteed admission to the CSU system, but not a particular campus or major. Students should meet with a Counselor to develop a comprehensive educational plan to further understand university and transfer requirements.

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.