***Geology:*** *Associate in Science for Transfer*

*UC*

Everything you have, every place you go, everything you do, and everything you touch is influenced completely and entirely by Geology. From the materials that your car is made from and the gasoline that propels it, to the synthetic fibers you are wearing – everything comes from the Earth. Geology (Geo meaning Earth, and ology meaning study of) takes a close look at the surface of the Earth and its interior.

***Please see a Pathways Counselor:*** Create an education plan customized to meet your needs. [Contact a Counselor](https://www.msjc.edu/hub/)

Transfer Majors/Award Focus

* Geology, A.S.-T CSUSB, UC

GE Pattern/Units

* GE Pattern: Option C
* Total Units: 74

**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](https://catalog.msjc.edu/instructional-programs/).

***Semester 1 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | ENGL-101 | College Composition | 4 |
| ⬜ | MATH-211 | Analytic Geometry and Calculus I | 4 |
| ⬜ | GEOL-100 | Physical Geology | 4 |
| ⬜ | ART-100 | Art Appreciation | 3 |

***Semester 2 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | ENGL-103 | Critical Thinking and Writing | 3 |
| ⬜ | MATH-212 | Analytic Geometry and Calculus II | 4 |
| ⬜ | CHEM-101 | General Chemistry I | 5 |
| ⬜ | HIST-111 | U.S. History to 1877 | 3 |

Career Options

Geophysical Data Technicians (B, M)

Geological Sample Test Technicians (B, M)

Geoscientists (B, M, D)

Hydrologists (B, M)

Find more careers: [msjc.emsicc.com](http://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 |
| ⬜ | CHEM-102 | General Chemistry II | 5 |
| ⬜ | ART-100 | Art Appreciation | 3 |
| ⬜ | GEOL-105 | Historical Geology | 4 |
| ⬜ | HIST-112 | U.S. History Since 1865 | 3 |

***Semester 4 14 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | BIOL-150 | General Biology I | 4 |
| ⬜ | COMM-100 | Public Speaking | 3 |
| ⬜ | PHY-201 | Mechanics and Wave Motion | 4 |
| ⬜ | PHIL-101 | Introduction to Philosophy I | 3 |

***Semester5 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| ✔ | COURSE | TITLE | UNIT |
| ⬜ | PS-101 | Introduction to American Government and Politics | 3 |
| ⬜ | PHY-202 | Electricity and Magnetism | 4 |
| ⬜ | PHY-203 | Optics and Modern Physics | 4 |
| ⬜ | SPAN-101 or  FREN-101 or  ASL-100 | Elementary Spanish I or  Elementary French I or  American Sign Language I | 4 |

Notes***:***

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

## Language Requirement: 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.

Work Experience

Sign up for a special project or internship opportunity. Gain [work experience](https://msjc.edu/careereducation/cwee/index.html) and earn credits.