***Biology:*** *Associate in Science for Transfer*

*CSU*

Biology will change your life because you will learn about yourself and the world around you. Biologists study how humans, animals and other organisms function and interact. It is essential for understanding the facts about topics such as vaccines, climate change, and genetically modified organisms. This will help you make more informed decisions about things that greatly impact you and your loved ones. Biology is required for medical and environmental careers.

***Please see a Pathways Counselor:*** Transfer degrees require a minimum of 60 semester CSU transferable units or UC semester transferable units with a minimum 2.0 GPA overall. [Contact a Counselor](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.msjc.edu%2Fhub%2F&data=05%7C01%7Cmbasgall%40msjc.edu%7C00671a05705e42bdeb1608db5b3ae60f%7C5fbf5385e264415f8989a6bdac9eadd3%7C0%7C0%7C638204080773150618%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=9Ex3X%2BRrsmq8ElINt4fc52T6Qj4sUd5Z9Umr8EokHlQ%3D&reserved=0) to create an education plan customized to meet your needs.

Transfer Majors/Award Focus

* Biology, A.S.-T CSU, UC

GE Pattern/Units

* GE Pattern: Option B
* Total Units: 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](https://catalog.msjc.edu/instructional-programs/).

***Semester 1 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | ENGL-101 | College Composition  | 4 |
| c | MATH-211 | Analytic Geometry and Calculus I | 4 |
| c | BIOL-150 | General Biology I | 4 |
| c | COMM-100 | Public Speaking | 3 |

***Semester 2 14 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | ENGL-103 | Critical Thinking and Writing | 3 |
| c | MATH-212 | Analytic Geometry and Calculus II | 4 |
| c | ENVS-101 | Environmental Science | 3 |
| c | BIOL-151 | General Biology II | 4 |

Career Options

Post-secondary Teachers (M+)

Registered Nurses (B+)

Physicians & Surgeons (D)

Dentists (D)

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.

***Summer 1 – STEM ONLY*** ***3 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | PS-101 | Introduction to American Government and Politics | 3 |

***Semester 3 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | PHIL-101 orHIST 102 | Introduction to Philosophy I orWestern Civilization Since 1650 | 3 |
| c | PHY-201 | Mechanics and Wave Motion | 4 |
| c | CHEM-101 | General Chemistry I | 5 |
| c | ART-108 | Beginning Drawing | 3 |

***Semester 4 15 Units***

|  |  |  |  |
| --- | --- | --- | --- |
| a | COURSE | TITLE | UNIT |
| c | PHY-202 | Electricity and Magnetism | 4 |
| c | PS-103/ETHS-103,HIST-160/ETHS-160,LIT-275/ETHS-275, orLIT-280 | Ethnic Politics in America orBlack History in the American Context orLatinx/Chicanx Literature orMultiethnic Literature | 3 |
| c | HIST-112 | U.S. History Since 1865 | 3 |
| c | CHEM-102 | General Chemistry II | 5 |

Notes***:***

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

## The Mission of the Department of Biological Sciences is to provide students a top-rate education in the biological sciences. Central to our goal is the incorporation of a laboratory-rich experience linked to traditional and innovative classroom pedagogy and technology. This combination of laboratory and classroom activities engages students in the processes of biological inquiry and critical thinking, provides students hands-on experiences with biological principles, and trains students in modern technological methods. Students completing our program are well educated in the practice and knowledge of science and are well prepared to be productive members of society.

Work Experience

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

Scheduling Notes

Make sure to complete a college level math class as soon as possible because both BIOL-150 and CHEM-101 have MATH-105 or higher as a prerequisite.

There are several sequential year-long course series in this program like BIOL-150 and BIOL-151. Make sure to plan ahead because you have to take the courses in the series in order over two semesters.

Considering taking courses during the summer sessions to finish the pathway sooner.

Helpful Hints

Free Math and Science tutoring are available in the [Learning Resource Centers](https://msjc.edu/learningresourcecenter/)

Consider joining the [Honors Enrichment Program](https://msjc.edu/honors) at MSJC to enhance your learning experience. msjc.edu/honors