

This program roadmap represents one possible pathway to complete the program. *Please see a counselor* to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call 916.608.6510.

Total Units: 55-65

## First Year

### Semester 1

13-15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>CHEM 400<sup>1</sup></b> General Chemistry I	5	See Note Below	F, S
<b>Major Elective*</b>	5		F, S
<b>Major Elective*</b>	3-5		F, S

<sup>1</sup> Chem 400 pre-requisites are intermediate algebra; and a college-level Chemistry course with a lab with a "C" or better or one year in high school Chemistry with a lab with a grade of "C" or better.

### Semester 2

18-20 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>BIOL 400</b> Principles of Biology	5	CHEM 400	F, S
<b>CHEM 401</b> General Chemistry II	5	CHEM 400	F, S
<b>Major Elective*</b>	5		F, S
<b>Major Elective*</b>	3-5		F, S

## Notes

- Environmental Science prepares students to address the effects of climate change on our planet and on human interactions with our environment and each other.
- Students completing the Certificate of Achievement in Environmental Science will be prepared to transfer to a four-year college where completing general education prior to admission to a major in Environmental Science or similar field is neither required nor expected.
- Students are encouraged to meet with a counselor to determine the appropriate course work necessary to meet transfer admission requirements.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.

## Second Year

### Semester 3

12-15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>BIOL 420</b> Principles of Zoology	5		F, S
<b>Major Elective*</b>	4-5		F, S
<b>Major Elective*</b>	3-5		F, S

### Semester 4

12-15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>BIOL 410</b> Principles of Botany	5	BIOL 400	F, S
<b>Major Elective*</b>	4-5		F, S
<b>Major Elective*</b>	3-5		F, S

\*The Environmental Science certificate requires 30 units of major electives that must be chosen from the list below (please consult a counselor to determine the electives that best fit your interests and target transfer college's requirements):

BIOL 350 Environmental Biology (3)

CHEM 420 Organic Chemistry I (5)

CHEM 421 Organic Chemistry II (5)

ECON 302 Principles of Macroeconomics (3)

ECON 304 Principles of Microeconomics (3)

GEOG 300 Physical Geography: Exploring Earth's Environmental Systems (3)

GEOG 301 Physical Geography Laboratory (1)

GEOL 300 Physical Geology (3)

GEOL 301 Physical Geology Laboratory (1)

MATH 355 Calculus for Biology and Medicine I (4)

MATH 356 Calculus for Biology and Medicine II (4)

MATH 375 Pre-Calculus Mathematics (6)

MATH 400 Calculus I (5)

MATH 401 Calculus II (5)

MATH 402 Calculus III (5)

PHYS 350 General Physics (4)

PHYS 360 General Physics (4)

PHYS 411 Mechanics of Solids and Fluids (4)

PHYS 421 Electricity and Magnetism (4)

PHYS 431 Heat, Waves, Light and Modern Physics (4)

PSYC 330 Introductory Statistics for the Behavioral Sciences (3)

STAT 300 Introduction to Probability and Statistics (4)

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