

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: 43-45

First Year

Semester 1

9-10 Units

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
CHEM 400¹ General Chemistry I	5	See Note Below	F, S
MATH 355 Calculus for Biology and Medicine I or	4	Trigonometry	F, S
MATH 400^z Calculus I	5	Precalculus	F, S

^z At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

¹ 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

14-15 Units

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
BIOL 400 Principles of Biology	5	CHEM 400	F, S
MATH 356 Calculus for Biology and Medicine II or	4	MATH 355	F, S
MATH 401 Calculus II	5	MATH 400	F, S
CHEM 401 General Chemistry II	5	CHEM 400	F, S

Second Year

Semester 3

10 Units

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
BIOL 410 Principles of Botany or	5	BIOL 400	F, S

Notes

- This certificate aligns with the UC Transfer Pathway in Biology, which provides students with roadmaps to Biology (or related) majors at any University of California (UC) campus. This certificate will be especially helpful to students who know (or have a general idea) that they are interested in majoring in Biology (or a related discipline), but have not decided which UC campuses they would like to apply to.

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.

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
BIOL 420 Principles of Zoology	5	BIOL 400	F, S
CHEM 420 Organic Chemistry I	5	CHEM 401	F, S

Semester 4

10 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
BIOL 410 Principles of Botany or	5	BIOL 400	F, S
BIOL 420 Principles of Zoology	5	BIOL 400	F, S
CHEM 421 Organic Chemistry II	5	CHEM 420	

Catalog Year: 2025-2026

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