

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*
<b>CHEM 400</b> General Chemistry I	5	MATH 120; 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.	F, S
<b>MATH 355</b> Calculus for Biology and Medicine I <b>or</b>	4	MATH 335	F, S
<b>MATH 400</b> Calculus I	5	MATH 375 or MATH 372 & 373	F, S

### Semester 2

14-15 Units

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

## Second Year

### Semester 3

10 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>BIOL 410</b> Principles of Botany <b>or</b>	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.

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

Semester 4

10 Units

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

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