



# Biology AS-T Degree

This AS-T is designed to prepare students for a seamless transfer into a baccalaureate degree in Biology or a similar major. Students wishing to transfer to a Univ. of California Biology program should meet with a CRC counselor to select and plan the courses as additional courses (in chemistry, physics, and math) may be required.

**Total Units: 61-62**

## First Year

### Semester 1

**15-16 Units**

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
<b>CHEM 400</b> <sup>Z</sup> General Chemistry I	5	Intermediate Algebra and CHEM 300, 305, 309 or 1 yr of HS Chem with Lab	F, S, Su	Cal-GETC Area 5A & 5C
<b>MATH 400</b> <sup>Z</sup> Calculus I or	5	MATH 370 or MATH 372 AND Math 373	F, S	Cal-GETC Area 2
<b>MATH 355</b> <sup>Z</sup> Calculus for Biology and Medicine I	4	MATH 335	Check Class Schedule for offering	Cal-GETC Area 2
<b>CalGETC Area 1A-English Composition</b> <sup>Z</sup>	3	Recommend meeting with a counselor	F, S, Su	Cal-GETC Area 1A
<b>CalGETC Area 1C-Oral Communication</b> <sup>Z</sup>	3		F, S, Su	Cal-GETC Area 1C

<sup>Z</sup> 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](#).

### Semester 2

**16 Units**

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
<b>BIOL 400</b> <sup>Z</sup> Principles of Biology	5	CHEM 400 or 305 and Intermediate algebra; Advisory: Eligibility for ENGL C1000	F, S	Cal-GETC Area 5B & 5C
<b>CHEM 401</b> <sup>Z</sup> General Chemistry II	5	CHEM 400	F, S	Cal-GETC Area 5A & 5C

## Career

### Options/Outlook:

Biologists research or study the basic principles of plant and animal life, such as origin, relationship, development, anatomy, and functions. Tasks may include collecting and analyzing biological data about relationships among and between organisms and their environment; prepare technical and research reports, such as environmental impact reports, and communicate the results to individuals in the industry, government, or the general public. **Career opportunities require more than an associate degree.**

### A sample of reported job titles:

Aquatic Biologist, Aquatic Scientist, Biological Scientist, Biologist, Botanist, Horticulturist, Marine Biologist, Research Biologist, Research Scientist, Scientist

### Projected job openings nationally (2020-2030):

1,640

### Projected growth nationally (2020-2030):

21% growth

### Median Salary in California with

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
CalGETC Area 1B- Critical Thinking <sup>Z</sup>	3		F, S, Su	Cal-GETC Area 1B
CalGETC Area 6 Ethnic Studies <sup>Z</sup>	3		F, S	Cal-GETC Area 6

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## Year 2

### Semester 3

15 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>BIOL 410</b> <sup>Z</sup> Principles of Botany	5	BIOL 400; Advisory: Eligibility for ENGL C1000	F, S	Cal-GETC Area 5B & 5C
<b>PHYS 350</b> <sup>Z</sup> General Physics	4	MATH 335	F	Cal-GETC Area 5A & 5C
<b>CalGETC Area 3A- Arts</b> <sup>Z</sup> or	3		F, S, Su	Cal-GETC Area 3A
<b>CalGETC Area 3B- Humanities</b> <sup>Z</sup>	3		F, S, Su	Cal-GETC Area 3B
<b>CalGETC Area 4- Social &amp; Behavioral Sciences</b> <sup>1</sup> <sup>Z</sup>	3		F, S, Su	Cal-GETC Area 4

<sup>Z</sup> 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](#).

<sup>1</sup> A total of 6 units from 2 disciplines to satisfy Area 4.

### Semester 4

15 Units

COURSE	UNITS	PRE-REQS <sup>^</sup>	SEMESTERS OFFERED*	GE AREA
<b>BIOL 420</b> <sup>Z</sup> Principles of Zoology	5	BIOL 400; Advisory: Eligibility for ENGL C1000	F, S	Cal-GETC Area 5B & 5C
<b>PHYS 360</b> <sup>Z</sup> General Physics	4	PHYS 350	S	Cal-GETC Area 5A & 5C

## advanced degree (2021):

\$97,260/yr

### Source:

<https://www.onetonline.org/link/summary/19-1020.01>

### Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

### Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

### About this map:

This program map 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 map is not a guarantee of course availability or financial aid applicability.

## 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*	GE AREA
CalGETC Area 4- Social & Behavioral Sciences <sup>1</sup> <b>Z</b>	3		F, S, Su	Cal-GETC Area 4
CalGETC Area 3A- Arts <b>Z</b> or	3		F, S, Su	Cal-GETC Area 3A
CalGETC Area 3B- Humanities <b>Z</b>	3		F, S, Su	Cal-GETC Area 3B

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^You must have passed the prerequisite course(s) with a “C” or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

\*(O) = online available (P) = partially online

<sup>1</sup> A total of 6 units from 2 disciplines to satisfy Area 4.