

Biology AS-T Degree - Intersegmental General Education Transfer Curriculum, Univ. of Cal or Cal State Univ.

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: 64-70

First Year

Semester 1 18-19 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
CHEM 400 Z General Chemistry I	5	Elementary Algebra and CHEM 300, 305, 309 or 1 yr of HS Chem with Lab	F, S, Su	IGETC Area 5A & 5C
MATH 400 Calculus I or	5	MATH 370	F, S	IGETC Area 2
MATH 355 Calculus for Biology and Medicine I	4	MATH 335	Check Class Schedule for offering	IGETC Area 2
IGETC Area 1A- English Composition	3	Recommend meeting with a counselor	F, S, Su	IGETC Area 1A
IGETC Area 3A-Arts or	3		F, S, Su	IGETC Area 3A
IGETC Area 3B- Humanities	3		F, S, Su	IGETC Area 3B
IGETC Area 1C- Oral Communication	3		F, S, Su	IGETC Area 1C

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 <u>ZTC page of the college website</u>.

Semester 2

13-18 Units

COURSE UNITS PRE-REQS[^] SEMESTERS GE AREA OFFERED*

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

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
BIOL 400 Principles of Biology	5	CHEM 400 or 305 and MATH 120; Advisory: Eligibility for ENGWR 300	F, S	IGETC Area 5B & 5C
CHEM 401 CHEMISTRY II	5	CHEM 400	F, S	IGETC Area 5A & 5C
IGETC Area 1B- Critical Thinking	3		F, S, Su	IGETC Area 1B
Any Transferable Elective ¹	0-5		F, S	

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 <u>ZTC page of the college website</u>.

Year 2

Semester 3 18 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
BIOL 410 Principles of Botany	5	BIOL 400; Advisory: Eligibility for ENGWR 300	F, S	IGETC Area 5B & 5C
PHYS 350 C General Physics	4	MATH 335	F	IGETC Area 5A & 5C
IGETC Area 3B- Humanities 2	3		F, S, Su	IGETC Area 3B
IGETC Area 3A-Arts 2	3		F, S, Su	IGETC Area 3A
IGETC Area 4- Social & Behavioral Sciences ¹	3		F, S, Su	IGETC Area 4

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 <u>ZTC page of the college website</u>.

Median Salary in California with 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,

¹ Suggestion-MATH 401 Calculus II(5 units); Pre-req: MATH 400; F, S. Units required are determined by the number of units needed to total 60 units for graduation. Refer to <u>Course Number</u> for the appropriate course level necessary for the degree.

¹ A total of 6 units from 2 disciplines to satisfy Area 4; Suggestion-select a course that will also meet the CSU graduation requirement.

Semester 4 15 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*	GE AREA
BIOL 420 Principles of Zoology	5	BIOL 400; Advisory: Eligibility for ENGWR 300	F, S	IGETC Area 5B & 5C
PHYS 360 C General Physics	4	PHYS 350	S	IGETC Area 5A & 5C
IGETC Area 4- Social & Behavioral Sciences ¹	3		F, S, Su	IGETC Area 4
IGETC Area 7- Ethnic Studies	3		F, S, Su	IGETC Area 7

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.

art supplies, etc. See full definitions and searching tips on the <u>Zero Textbook Costs</u> <u>page</u> of the college website.

Catalog Year: 2023-2024 Counselor Contact: Ray Mapeso or Anna Davtian | Faculty Contact: Eli Carlisle Published May 15, 2023

[^]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

¹ A total of 6 units from 2 disciplines to satisfy Area 4; Suggestion-select a course that will also meet the CSU graduation requirement.