

# Biology AS-T Degree - combined botany & zoology

PART TIME

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.

Catalog: 2024-25

**GE Pattern: IGETC-STEM** 

Total Units: 60

# First Year

Semester 1 7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	MATH 355 <sup>1</sup>	Calculus for Biology and Medicine I	4	2
GE	ENGWR 300 / 480 H	College Composition	3	1A

<sup>&</sup>lt;sup>1</sup> or MATH 400 (Calculus I). <u>See a counselor</u> to determine the appropriate math course(s) to take, based on your educational goals.

Semester 2 6 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE		any Area 1B (Critical Thinking) course	3	1B
Elec		any elective course numbered 300-499	3	

# Second Year

Semester 3 8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	CHEM 400	General Chemistry I	5	5A
GE		any Area 3B (Humanities) course	3	3B

Semester 4 8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	CHEM 401	General Chemistry II	5	
GE		any Area 1C (Oral Communication) course	3	1C

# **Third Year**

Semester 5 8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	BIOL 400	Principles of Biology	5	5B, 5C
GE		any Area 4 (Social & Behavioral Sciences) course	3	4

## Semester 6 9 Units

CAT. COURSE TITLE UNIT GE AREA
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## 4 YEARS

#### TRANSFER PATH

#### Potential Transfer Majors:

• Biology B.S.

# Potential Career/Options After Completing a Bachelor's Degree:

Career opportunities include:

- physician
- physiologist
- molecular biologist
- biotechnologist
- · cell biologist
- geneticist
- researcher (lab or field)
- botanist
- zoologist
- ecologist
- technical writer

A bachelor's degree in biology also prepares students for professional schools including medical school, dental school, and optometry school.

#### **Advising Notes:**

- This roadmap, with combined botany and zoology (BIOL 415), is only recommended for students with strong science backgrounds and few outside commitments.
- Students can substitute ESLW 340 for ENGWR 300/480.

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	BIOL 415	Introduction to Biology: Biodiversity, Evolution, and Ecology	5	
Elec		any elective course numbered 300-499	3	
Elec		any elective course numbered 300-499	1	

		Fourth Year		
Seme	ster 7			7 Units
CAT.	COURSE	TITLE	UNIT	GE AREA
Req	PHYS 350	General Physics	4	

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	PHYS 360	General Physics	4	
GE		any Area 7 (Ethnic Studies) course	3	7

		EXPLANATION OF CATEGORIES
RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list
GE	General Education	A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement
Elec	Degree Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree
Req	Required Core	A course that is required for this program

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 This map starts with MATH 355 and CHEM 400, which have prerequisites. Please see a counselo <u>r</u> to add in prerequisite courses, if needed.

# Other Notes to Students Preparing to Transfer:

- CSUS and some other CSUs require STAT 300 for admission.
- Organic chemistry and second semester calculus are often required for transfer.
- See <u>ASSIST.ORG</u> for the transfer requirements of the institution to which you plan to transfer.
- The UC system requires proficiency in a language other than English equivalent to two years of high school study. See a counselor about fulfilling this requirement.

### Honors Courses (H):

Students with a cumulative GPA of 3.2 or better who complete 15 or more units of Honors coursework earn an <u>Honors</u> Transfer Certificate and can take advantage of honors-to-honors transfer agreements with highly selective colleges and universities, both public and private.