

# BIOLOGY FOR TRANSFER (AS-T)

**PROGRAM DESCRIPTION:**

The Associate in Science for Transfer (AS-T) degree in Biology explores life at the molecular, cellular, organismal and ecological levels, providing a foundation for further study in the life sciences and related fields of study (e.g. medicine, dentistry, veterinary science, agriculture botany, microbiology, zoology, entomology, ecology). The Associate and Science for Transfer is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associates degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the transfer degree in Biology guarantees the student's acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue to a baccalaureate degree, in preparation to pursue a career in the field of Biology. Students should consult with a counselor for more information on university admission and transfer requirements.

**CAREER AT A GLANCE:**
**HOW DO I KNOW IF THIS MAJOR IS FOR ME?**

- You enjoy conducting research and analyzing data
- You enjoy thinking critically and problem solving
- You like to keep detailed records of your work
- You like to work with charts and reports
- You like working with technology
- You enjoy working with hands-on problems and solutions
- You want to work in lab environment

*Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.*

**WHERE CAN I WORK?**

Colleges and Universities	Federal/State Government
Food Manufacturing	Local Government
Scientific Research Services	Pharmaceutical Companies
Medical Facilities	Gaming/Fishing Management

*For more information visit: [www.labormaketinfo.edd.ca.gov/OccGuides](http://www.labormaketinfo.edd.ca.gov/OccGuides)*

**HOW DO I GET STARTED?**

- Start taking introductory biology, math, and chemistry courses
- Apply for entry level positions in reception, data entry, or customer service with employers where you would like to promote
- Job shadow and conduct informational interviews with professionals in positions you wish to have
- Include research projects on your resume
- Volunteer in schools or other research labs
- Attend university campus tours and visit the Transfer Center to decide where you want to transfer

**WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?**

<i>Position Title</i>	<i>CA Median Salary</i>
Biological Technician	\$48,960
Wildlife Technician	\$48,960
Environmental Technician	\$54,100
Laboratory Assistant	\$55,000
Resource Technician	\$35,250
Research Assistant	\$51,500
Medical Lab Assistant	\$55,000
Science Technician	\$41,940

**WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?**

<i>Position Title</i>	<i>CA Median Salary</i>
Biological Science Teacher	\$77,980
Biological Scientist/Biologist	\$83,660
Life Scientist	\$92,960
Natural Scientist Manager	\$138,190
Biochemist/Biophysicist	\$94,570
Microbiologist	\$95,730
Geneticist	\$83,660
University Professor	\$105,190
Physician's Assistant	\$115,720
Medical Doctor	\$190,860
Zoologist	\$68,230
Plant Scientist	\$76,770
Wildlife Biologist	\$68,230
Conversation Resource Manager	\$81,680
Fisheries Manager	\$77,990
Molecular Biologist	\$83,660
Research Director	\$138,190

*For more information about careers, education and training requirements, salary data, and job outlooks visit [www.onetonline.org](http://www.onetonline.org).*

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from [www.onetonline.org](http://www.onetonline.org) and [www.bls.gov](http://www.bls.gov).

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**MAJOR AND COURSE REQUIREMENTS:**

To obtain the Biology AS-T degree, students must:

- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

**LEGEND:** G=Grade    IP=In Progress    N=Need    **Bold: Prerequisites**    Plain Text: No Prerequisites

<i>Major Requirements for the Associate in Science for Transfer Degree (S066A/B)</i>		Grade	IP	Need	Units
<b>BIOL 40</b>	<b>Introduction to Cell and Molecular Biology</b>				<b>5</b>
<b>BIOL 62</b>	<b>Biology of Organisms</b>				<b>5</b>
<b>BIOL 63</b>	<b>Evolutionary Ecology</b>				<b>4</b>

Student Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor: \_\_\_\_\_

<i>List A: Complete the following courses:</i>		Grade	IP	Need	Units
<b>CHEM 24A</b>	<b>General Chemistry I</b>				<b>5</b>
<b>CHEM 24B</b>	<b>General Chemistry II</b>				<b>5</b>
<b>MATH 65A</b>	<b>Calculus I</b>				<b>4</b>
<b>PHYS 30A</b>	<b>Physics for Medical and Life Sciences I</b>				<b>4</b>
<b>PHYS 30B</b>	<b>Physics for Medical and Life Sciences II</b>				<b>4</b>

**Units for the Major: 36**

**COUNSELOR NOTES:**


	IGETC STEM	CSUGE STEM
General Education	31	33
Total units that may be double counted	10	10
Elective (CSU transferable) units	3	1
	<b>60</b>	<b>60</b>

\$46 per unit for CA Residents