



Science, Technology, Engineering, and Mathematics Career and Academic Pathways (CAPs) Program Map: Associate of Science Degree for Transfer for Biology

Total number of units: 75 units

Top Code/Academic Plan:

Updated on February 20, 2022

Semester 1	Course Code	Course	Units	Notes	Advising Notes
Program Course	MATH 261	Calculus I	5	There are prerequisites for this course which may need to be completed before taking MATH 261.	
Program Course	CHEM 065	Introductory General Chemistry	4	Prerequisite for Chem 101 & Bio 6. This course has sections that are part of the Honors Program. Check the current catalog for the section number(s). To apply for admission to the Honors Program, please visit the ELAC Counseling Center. For additional information about the Honors Program, please visit the ELAC Honors Program website or contact Dr. Bermudez at bermudn@elac.edu .	This course may have sections that include a low cost (LCT) or no cost textbook (ZTC). Check the current catalog for the section number(s). You can search for classes in the ELAC and LACCD Schedule of Classes under "Class Search Type" as "Zero Textbook Cost" or "Low-Cost Textbook Classes."
GE Course	ENGLISH 101	College reading and Composition	3	This course has sections that are part of the Honors Program. Check the current catalog for the section number(s). To apply for admission to the Honors Program, please visit the ELAC Counseling Center. For additional information about the Honors Program, please visit the ELAC Honors Program website or contact Dr. Bermudez at bermudn@elac.edu .	This course may have sections that include a low cost (LCT) or no cost textbook (ZTC). Check the current catalog for the section number(s). You can search for classes in the ELAC and LACCD Schedule of Classes under "Class Search Type" as "Zero Textbook Cost" or "Low-Cost Textbook Classes."

Total Units 12

Interession	Course Code	Course	Units	Notes	Advising Notes
Program Course	COMM 101	Public Speaking	3		The course is also available online.
GE Course	IGETC 3 or 4		3	Your choice IGETC 3 or 4.	

Total Units 6

Semester 2	Course Code	Course	Units	Notes	Advising Notes
Program Course	MATH 262	Calculus II	5	Pre-requisite for PHYSICS 102.	
Program Course	CHEM 101	General Chemistry I	5	The prerequisite for this course is CHEM 065.	
Program Course	ENGLISH 102 or ENGLISH103	College Reading and Composition II or Composition and Critical Thinking	3	Either course has sections that are part of the Honors Program. Check the current catalog for the section number(s). To apply for admission to the Honors Program, please visit the ELAC Counseling Center. For additional information about the Honors Program, please visit the ELAC Honors Program website or contact Dr. Bermudez at bermudn@elac.edu .	This course may have sections that include a low cost (LCT) or no cost textbook (ZTC). Check the current catalog for the section number(s). You can search for classes in the ELAC and LACCD Schedule of Classes under "Class Search Type" as "Zero Textbook Cost" or "Low-Cost Textbook Classes."

Total Units 13

Interession	Course Code	Course	Units	Notes	Advising Notes
Program Course	PHYSICS 011	Introductory Physics	4	Pre-requisite for PHYSICS 101. This course has sections that are part of the Honors Program. Check the current catalog for the section number(s). To apply for admission to the Honors Program, please visit the ELAC Counseling Center. For additional information about the Honors Program, please visit the ELAC Honors Program website or contact Dr. Bermudez at bermudn@elac.edu .	

Interession	Course Code	Course	Units	Notes	Advising Notes
GE Course		IGETC 3 or 4	3		

Total Units 7

Semester 3	Course Code	Course	Units	Notes	Advising Notes
Program Course	CHEM 102	General Chemistry II	5	If 3 STEM courses are too much, switch out a GE.	
Program Course	BIOLOGY 006	General Biology I	5	And take the 3rd STEM in interession.	
Program Course	PHYSICS 101	Physics for Engineering and Scientists	5	Course load can be reduced by utilizing the interession semesters.	May select PHYSICS 006 & 007 instead of 101 & 102; however, 006 & 007 are ONLY offered in Fall, and are both 8 weeks each in the same term.

Total Units 15

Interession	Course Code	Course	Units	Notes	Advising Notes
GE Course		IGETC 3 or 4	3		
GE Course		IGETC 3 or 4	3	May select any IGETC area course from Area 3 or 4.	

Total Units 6

Semester 4	Course Code	Course	Units	Notes	Advising Notes
Program Course	PHYSICS 102	Physics for Engineering and Scientists 2	5	The prerequisite for this course is PHYSICS 101.	
Program Course	BIOLOGY 007	General Biology 2	5	The prerequisite for this course is BIOLOGY 006.	
GE Course		IGETC 3 or 4	3		
GE Course		IGETC 3 or 4	3		

Total Units 16

Degree Path and Requirements:

This map uses the IGETC GE pattern. Transfer as a biology major for premed or Ph. D. To earn the AS-T in Biology, students must complete the following: Completion of 60 semester units or 90 quarter units of degree-applicable courses, Minimum overall grade point average of 2.0, Minimum grade of "C" (or "P") for each course in the major, and Completion of IGETC for STEM and/or CSU GE-Breadth for STEM.

This map is a suggested term-by-term sequence of courses to complete the program in a recommended time frame. This is an efficient and recommended plan, but actual plans may vary by individual student need. This map cannot replace a meeting with [counselors](#).

Department Advising Notes:

This is a recommendation, but be sure to see a counselor to assure that your personal map is most accurate to meeting your individual academic needs and goals. The department recommends MICRO 001 for transfer to specific programs. Check with the Counselors and Department Faculty for specific information. The department recommends completing as many Science courses (CHEM, PHYSICS, BIOLOGY) before transferring to experience smaller class sizes and more individual attention.

Program Description

The Associate of Science in Biology for Transfer degree (AS-T in Biology), offered by the Life Sciences Department, is intended for students who plan to transfer and complete a Bachelor's degree in Biology at a California State University (CSU) campus. Curriculum requirements for the AS-T in Biology prepare students to evaluate living systems to address contemporary issues. Visit [Career Coach](#).

Career and Transfer Opportunities

Transfer to a 4 year college as a biology major. Possible careers: anything in biology including M.D. and Ph.D.

This transfer degree guarantees admission to the California State University system. Visit the [Transfer Center](#) for transfer and guaranteed transfer information, which varies based on transfer college. Make an appointment with [a counselor](#) for transfer information. Students can visit [Career and Job Services](#) for career counseling and further exploration.

Youtube Videos

[Biologist](#)

[The Biology Major: Careers, Courses, and Concentrations](#)

Program Map

A suggested sequence of classes to complete a degree, certificate, or program of study. Students should consult an academic counselor for variations to this plan based on part-time or full-time status, transfer plans, pre-requisites needed, etc.

Prerequisite Course

A specific course that must be completed before advancing to the next course.

Check the online catalog at elac.edu for the latest and most accurate information.

Contact

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