



Science, Technology, Engineering, and Mathematics

Career and Academic Pathways (CAPs)

Program Map: Associate of Science for Transfer for Mathematics (CSU GE)

Total number of units: 61-66 units

Top Code/Academic Plan: 1701.00

Updated on February 27, 2022

Semester 1	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	MATH 261	Calculus I	5	Prerequisite MATH 241 (or 241S) and 260 (or 260S). May be waived by the Math department dependent on high school coursework. Advisory: take MATH 241/241S the summer prior to term 1 for review and/ or preparation.	Main campus; all day options.
GE Course	ENGLISH 101	College Reading and Composition I	3	Meets CSU GE: Area A2. 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	COMM 101	Public Speaking	3	Meets CSU GE: Area A1.	
GE Course	CSU GE: Area B2		3 - 5	Some transfer institutions may have specific science recommendations or requirements; be sure to see a counselor to verify.	

Total Units 14 to 16

Intersession	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	MATH 227 /227S	Statistics	4	To fulfill the requirements of the AST, you must take one of MATH 270 or 275. If you do not take both, then you need MATH 227 / 227S or PHYSICS 101.	MATH 227 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 .

Total Units 4

Semester 2	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	MATH 262	Calculus II	5		Main campus; all day options.
GE Course	CSU GE: Area A3		3		
GE Course	CSU GE: Area B1		3 - 5	Recommend: PHYSICS 011 (4 unit class) as a Prerequisite to PHYSICS 101 or Challenge with Physics Dept. This course will also meet CSU GE: Area B3, as it includes the lab section.	PHYSICS 011 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 .
GE Course	CSU GE: Area C1		3		

Total Units 14 to 16

College level English and Math should be completed within the first year of study. Follow placement guidance in the application process or meet with a counselor to find the right course level.

Interession	Course Code	Course	Units	Notes	Advising Notes
GE Course	CSU GE: Area C1 or C2		3	Students will need 9 units (typically 3 courses) from Area C, thus at least one needs to be from C1 and one needs to be from C2; see a counselor for more details.	

Total Units 3

Semester 3	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	MATH 263	Calculus III	5		Main campus; all day options.
GE Course	CSU GE: Area C2	US History Recommended	3	International students must take HISTORY 011 or 012 for UC grad requirement; will also meet CSU grad requirement. HISTORY 011 or 012 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 .	HISTORY 011 or 012 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	CSU GE: Area D		3		
GE Course	CSU GE: Area D		3		

Total Units 14

Semester 4	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	MATH 270	Linear Algebra	3	Pre-requisite is Calculus II; To fulfill the requirements of the AST, you must take one of MATH 270 or 275. If you do not take both, then you need MATH 227 / 227S or PHYSICS 101.	
Program/GE Course	MATH 275	Ordinary Differential Equations	3	Pre-requisite is Calculus III; To fulfill the requirements of the AST, you must take one of MATH 270 or 275. If you do not take both, then you need MATH 227 / 227S or PHYSICS 101.	
GE Course	POL SCI 001	The Government of the United States	3	Meets CSU Graduation Requirements, as well as CSU GE: Area D. POL SCI 001 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 .	POL SCI 001 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	CSU GE: Area E		3		

Total Units 12

Degree Path and Requirements:

This is a degree for students intending to transfer to CSU. If you are considering a UC, please refer to the map which uses the IGETC pattern, and be sure to consult with a counselor.

Department Advising Notes:

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](#).

Program Description

The Associate in Science Degree for Mathematics for Transfer is designed to award an Associate in Science degree to those who are intending to transfer to the California State University system in mathematics. The Associate in Science Degree for Mathematics for Transfer is intended to meet the needs of mathematics students who do not require significant coursework in the sciences to complete their degree. The requirements for the Associate in Science in Mathematics for Transfer degree were chosen solely to meet the requirements for the Transfer Model Curriculum in Mathematics and may not be adequate preparation for transfer to institutions outside of the California State University System.

Career and Transfer Opportunities

This transfer degree guarantees admission to the California State University system. The degree program offers training leading to career in research, education, business, industry, and government. In addition, many areas, such as the physical and biological sciences, engineering, business, finance and economics depend upon the use of mathematics in developing solutions to practical problems. Transfer after completing this program and the future jobs that graduates can secure after completing their 4 year or graduate level degree. Visit the [Transfer Center](#) for transfer and guaranteed transfer information, which varies based on transfer college. Insert hyperlink. Make [an appointment with a counselor](#) for transfer information. Students can visit [Career and Job Services](#) for career counseling and further exploration. Check out these [Math careers](#).

Youtube Videos

[Mathmatician Career Video](#)

[Statistician Career Video](#)

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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