



Science, Technology, Engineering, and Mathematics

Career and Academic Pathways (CAPs)

Program Map: Associate in Arts Degree for Environmental Studies: Physical Sciences

Total number of units: 58-60 units

Top Code/Academic Plan: 0302.00

Updated on February 20, 2022

Semester 1	Course Code	Course	Units	Notes	Advising Notes
Program/GE Course	ENV SCI 001	Introduction to Environmental Science	3	Core course that satisfies Area A: Natural Science. 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 .	Offered all semesters.
GE Course	MATH 125	Intermediate Algebra	5	Students may also take MATH 125S for additional support. MATH 125 or MATH 125S is a prerequisite for CHEM 101. Satisfies Area D2: Communication and Analytical Thinking.	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	Area E1: Health Education		3		
GE Course	ELECTIVE		1-2	Choose any CSU or UC transferable course.	

Total Units 12 to 13

Intersession	Course Code	Course	Units	Notes	Advising Notes
Program Course	CHEM 065	Introductory General Chemistry	3	MATH 125 or MATH 125S is a prerequisite for this course.	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 3

Semester 2	Course Code	Course	Units	Notes	Advising Notes
Program Course	ENV SCI 022	The Human Environment: Physical Processes Lab	3	ENV SCI 001 is a corequisite for this course.	Offered in the Spring only.
Program Course	ECON 060	Environmental Economics	3	Core course that satisfies Area B2: Social and Behavioral Sciences. 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 .	Offered in the Spring only and online.
Program Course	BIOLOGY 009	Man and His Environment: Biological Processes	3	Core course.	Offered in the Spring only.

Semester 2	Course Code	Course	Units	Notes	Advising Notes
GE Course	ENGLISH 101	College Reading and Composition I	3	AREA D1: English Composition. 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 .	Offered on main campus and southgate, online, and hybrid. 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

Semester 3	Course Code	Course	Units	Notes	Advising Notes
Program Course	CHEM 101	General Chemistry I	5	CHEM 065 and MATH 125/125S are prerequisites for this course.	
Program Course	PHILOS 028	Environmental Ethics	3	Core course that counts as Area C: Humanities.	
Program Course	Restricted Elective List A		3-4	Students can choose between ENV SCI 024, PHYSICS 017, or GEOG 003 or METEOR 003. All of the courses count as GE Area A: Natural Sciences. Students also have the option to select a course in Restricted Elective Course List D instead of this list.	
GE Course	Area E2: Physical Education Activity		1		

Total Units 12 to 13

Intersession	Course Code	Course	Units	Notes	Advising Notes
GE Course	ELECTIVE		3	Choose any CSU or UC transferable course.	
GE Course	ELECTIVE		3	Choose any CSU or UC transferable course.	

Total Units 6

Semester 4	Course Code	Course	Units	Notes	Advising Notes
Program Course	MATH 227	Statistics	4	Core course. Students may also take MATH 227S for additional support. 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 .	
Program Course	Restricted Elective List C		3	Students can choose between ASTRON 015, EARTH 001, GEOLOGY 001, or OCEANO 001. Students also have the option to select a course in Restricted Elective Course List D instead of this list.	
Program Course	Restricted Elective List B		3	Students can choose between HISTORY 078, HISTORY 097, or LAW 060. HISTORY 078 and HISTORY 097 count as Area B2: Social and Behavioral Sciences. Students also have the option to select a course in Restricted Elective Course List D instead of this list.	
GE Course	Area B1: American Institutions		3		

Total Units 13

Degree Path and Requirements:

This map was created using the LACCD GE Course requirements. Students should see a [counselor](#) for an individualized plan for transfer.

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:

Students may substitute MATH 227, MATH 227S, ECON 020 or PSYCH 091 for the MATH 125 requirement.

Program Description

The Environmental Studies: Physical Science Program is an interdisciplinary and multidisciplinary course of study that presents an overview of basic principles of chemistry, physics and earth science applied to environmental issues. The program also studies the interrelationship between humans and nature by examining the behavior of matter and natural phenomena. The curriculum prepares students to deal with the complex environmental problems that confront society by providing a broad, basic understanding of how physical and human components of the environment interact. The degree's core courses examine the relationship between nature and social systems. Furthermore, they introduce students to the interplay between natural and social systems, and the ideological foundations of humankind's attitudes and behaviors with respect to their ever-changing environments. The courses are designed to equip students with necessary lab skills that involve the scientific method, and the critical understanding of the interrelationship between science and nature, helping students to be more avid in the studying and in the solving of environmental problems that could be better understood by examining basic behavior and interaction principles of matter and its surroundings. Specifically, this program uses an interdisciplinary approach to introduce students to an overview of environmental issues from a physical science perspective, preparing students to research, analyze, and propose solutions to the different and intricate environmental challenges that the world may face.

Career and Transfer Opportunities

Environmental Studies programs vary significantly from one university to the next. Transfer students are encouraged to tailor their coursework towards the degree requirements of their intended institution.

Visit the [Transfer Center](#) for transfer information, which varies based on transfer college. Make an appointment with a [counselor](#). Students can visit [Career and Job Services](#) for career counseling and further exploration.

[Career Coach Link](#).

Youtube Videos

[You Belong at East Los Angeles College](#)

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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