

## Environmental Science AS-T (IGETC for STEM GE Track)

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

**Program Description:** The Environmental Science Program is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues from a scientific perspective. The broad course work requirements include biology, chemistry, physics and geology and serve to examine the interrelated nature of environmental and social systems. The program is designed to equip students with the skills and analytical ability to apply the scientific method to explore and solve environmental problems.

The curriculum in the Environmental Science Associate Degree program is designed to prepare students to transfer to a baccalaureate institution and complete a four year degree in an environmental related field of study, including, but not limited to, Environmental Science, Environmental Studies, Environmental Management, Environmental Policy, Energy Studies, Sustainability Studies, Conservation Biology, Ecology, and Wildlife Management. [The Student Transfer Achievement Reform Act \(SB 1440\)](#)

If following this map for this Associate Degree for Transfer, a student needs to complete the IGETC for STEM, which means that within IGETC Area 3, the student only needs at least one 3-unit Art course and at least one 3-unit Humanities course, rather than needing three courses (or 9 units) from Area 3. The student also only needs two 3-unit courses from IGETC Area 4-Social Sciences, rather than needing three courses (or 9 units) from Area 4.

**Program SLO:** Students will be able to analyze environmental problems and evaluate potential solutions based on scientific data looking at ecological, economic and social factors.

**Important Transfer Information:** Connect with a counselor to develop an individualized student education plan through the Counseling Department @ <https://www.canyons.edu/counseling> or (661) 362-3288. This sequence listed below, may not meet all your transfer admissions requirements.

Major courses are sequenced and **BOLDED** based on recommendations by the [Department of Biology](#).

First Semester	(4-16 units)		FA = Fall; WI = Winter; SP = Spring; SU = Summer
Course	Title	Units	Major and GE Courses
<b>ENVRMT 103</b>	<b>Introduction to Environmental Sci (FA, SP)</b>	<b>4</b>	<b>Major Course, Area 5A and 5C</b>
*MATH 102	Trigonometry (FA, WI, SP, SU)	4	Prerequisite (Not UC transferable)
+CHEM 151/151H	Preparatory Chemistry (FA, WI, SP, SU)	4	Prerequisite
ENGL 101/101H	English Composition (FA, WI, SP, SU)	4	Area 1A
	<b>Term Totals:</b>	<b>16</b>	

\*Based on assessment results

+Students can take Chemistry Diagnostic Exam to place into CHEM 201

**Check the Honors website for most recent course offerings. Must be enrolled in the Honors program to take courses, see below**

Intersession I	(17-19 units)		
Course	Title	Units	Major and GE Courses
COMS 105/105H	Fundamentals of Public Speaking (FA, WI, SP, SU)	3	Area 1C
	<b>Term Totals:</b>	<b>3</b>	

Second Semester	(20-36 units)		
Course	Title	Units	Major and GE Courses
<b>BIOL 106/106H</b>	<b>Organismal &amp; Environmental Biology (FA, WI, SP, SU)</b>	<b>4</b>	<b>Major Course, Area 5B and 5C</b>
<b>CHEM 201/201H</b>	<b>General Chemistry I (FA, WI, SP, SU)</b>	<b>5</b>	<b>Major Course</b>

<b>Second Semester</b>		<b>(20-36 units)</b>	
Course	Title	Units	Major and GE Courses
*MATH 104	Pre-Calculus (FA, SP, SU)	5	Prerequisite and Area 2
American Institutions – Choose Option I or II	Complete first course in chosen option – (note: must take both classes within one option) (FA, WI, SP, SU)	3	American Institutions and Area 3B or 4
<b>Term Totals:</b>		<b>17</b>	

<b>Interession II</b>		<b>(37-41 units)</b>	
Course	Title	Units	Major and GE Courses
*MATH 211	Calculus I (FA, SP, SU)	5	Major Course
<b>Term Totals:</b>		<b>5</b>	

<b>Third Semester</b>		<b>(42-55 units)</b>	
Course	Title	Units	Major and GE Courses
BIOL 107/107H	Molecular and Cellular Biology	4	Major Course
Group 1 Course++	Choose 1st course from Group 1 listed below	4	Major Course
ECON 202/202H	Microeconomics (FA, WI, SP, SU)	3	Major Course and Area 4
Critical Thinking	Choose one course from the IGETC GE Area 1B category (FA, WI, SP, SU)	3	Area 1B
<b>Term total:</b>		<b>14</b>	

++Physics sequence varies based on transfer school. See a counselor for more information.

<b>Interession III</b>		<b>(56-62 units)</b>	
Course	Title	Units	Major and GE Courses
GEOGRPH 101 or GEOLOGY 101	Physical Geography with Lab (FA, WI, SP, SU) or Physical Geology with Lab (FA, WI, SP, SU)	4	Major Course
Arts Course	Choose one course in IGETC GE Area 3A (FA, WI, SP, SU)	3	Area 3A
<b>Term total:</b>		<b>7</b>	

May not need elective units if already have finished 60 CSU/UCunits, major courses, and GE requirements (see Counseling Department for assistance)

<b>Fourth Semester</b>		<b>(63-73 unit minimum)</b>	
Course	Title	Units	Major and GE Courses
Group 1 Course++	Choose 2 <sup>nd</sup> course from Group 1 listed below	4	Major Course
MATH 140/140H	Introductory Statistics (FA, WI, SP, SU)	4	Major Course
American Institutions – Choose Option I or II	Complete second course in chosen option – (note: must take both classes within one option) (FA, WI, SP, SU)	3	American Institutions and Area 3B or 4
#UC Elective (if needed)	Suggested to take a #foreign language class from IGETC-Language Other Than English (unless you completed 2 years of High School language already)	4-5 (if needed)	UC Elective (if short units or still need a #foreign language for the UCs or other transfer college)
<b>Term total:</b>		<b>11-16</b>	

**Total Units: 73+ units**

**#Note:** Foreign language is required as part of the UC transfer general education breadth. Please see the Counseling Department for additional information.

**Group 1 – Need eight units from the following two options:**

++Physics sequence varies based on transfer school. See a counselor for more information.

Physics 110++	General Physics I (FA, SP, SU)	4
Physics 111++	General Physics II (FA, SP, SU)	4
OR		
Physics 220++	Physics for Scientists and Engineers: Mechanics of Solids and Fluids (FA, SP, SU)	4
Physics 221++	Physics for Scientists and Engineers: Electricity & Magnetism (FA, SP, SU)	4

**American Institutions Requirement** – Select one of the options below and complete a total of 6 units

<b>Option 1</b>	One course from the following: Economics 170/170H, History 111/111H, History 112/112H, History 120/120H, or History 130 <b>AND</b> Political Science 150/150H (FA, WI, SP, SU)
<b>Option 2</b>	History 111/111H <b>AND</b> History 112/112H (FA, WI, SP, SU)

**Counseling Resources**

Biology Department: <https://www.canyons.edu/academics/biology/index.php>

UC General Education Guide:

<https://www.canyons.edu/resources/documents/student-services/counseling/degrees/IGETC20192020.pdf>

CSU/UC Articulation Agreements: [www.assist.org](http://www.assist.org)

University of California: [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu)

UC Transfer Pathway: <http://admission.universityofcalifornia.edu/transfer/preparation-paths/index.html>

COC Club -Hands on Earth: Email [Hands.On.Earth@gmail.com](mailto:Hands.On.Earth@gmail.com)

COC Club -National Parks Club: Email [nationalparkclub@gmail.com](mailto:nationalparkclub@gmail.com)

**Career Resources**

California Career Zone: <https://www.cacareerzone.org/>

O\*Net Online: <https://www.onetonline.org/>

Bureau of Labor and Statistics: [www.bls.gov](http://www.bls.gov)

Professional Associations: AESS Association for Environmental Studies and Sciences: <https://aessonline.org/>