

### 2022-23

## ENVIRONMENTAL SCIENCE

### AS-T ENVIRONMENTAL SCIENCE

#### Pathways for Transfer

(IGETC) NAS893

#### REQUIRED COURSES (40-41 semester units) UNITS

BIO-60 (formerly BIO-11) Introduction to Molecular and Cellular Biology 5

CHE-1A General Chemistry I 5

BIO-61 (formerly BIO-12) Introduction to Organismal & Population Biology 5

OR

CHE-1B General Chemistry II 5

#### LIST A (14 -15 semester units) UNITS

BIO-19 (formerly BIO-36) Environmental Science 3

GEG-1/1H Physical Geography/Honors 3

AND

GEG-1L Physical Geography Laboratory 1

MAT-12/12H Statistics/Honors 4

OR

PSY/SOC-48 Statistics for the Behavioral Sciences 3

MAT-1A Calculus I 4

#### LIST B (11 semester units) UNITS

ECO-8/8H Principles of Microeconomics/Honors 3

PHY-2A & 2B General Physics I AND II 8

OR

PHY-4A & 4B Mechanics AND Electricity & Magnetism 8

This academic plan includes major coursework and recommended general education requirements for transfer. **Transfer requirements vary based on institution.** Please see a counselor to develop your personal educational plan and determine appropriate work/life/school balance.

TERM 1			
CPP		UCR	
COURSE	UNITS	COURSE	UNITS
ENG 1A	4	ENG 1A	4
MAT 1A	4	MAT 1A	4
CHE 1A	5	CHE 1A	5
BIO 19	3	BIO 19	3
		POL 1	3
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>19</b>

TERM 2			
COURSE	UNITS	COURSE	UNITS
ENG 1B	4	ENG 1B	4
CHE 1B	5	MAT 1B	4
GEG 1 & 1L	4	CHE 1B	5
COM 1, 6 or 9	3	GEG 1/1L	4
ARE 35, 36 or GAM 2	3	COM 1, 6 or 9	3
<b>Total Units</b>	<b>19</b>	<b>Total Units</b>	<b>20</b>

TERM 3			
COURSE	UNITS	COURSE	UNITS
BIO 60	5	BIO 60	5
PHY 2A or 4A	4	PHY 2A	4
ECO 8	3	ECO 8	3
MAT 12	4	MAT 12	4
MUS 3, THE 3 or ART 2	3	ARE 35, 36 or GAM 2	3
<b>Total Units</b>	<b>19</b>	<b>Total Units</b>	<b>19</b>

TERM 4			
COURSE	UNITS	COURSE	UNITS
BIO 61	5	BIO 61	5
PHY 2B or 4B	4	PHY 2B	4
POL 1	3	MUS 3, THE 3 or ART 2	3
HIS 6, 7, 14, 31 or 34	3	HIS 1 or 2	3
SOC 10	3	SOC 10	3
<b>Total Units</b>	<b>18</b>	<b>Total Units</b>	<b>18</b>

✓ First Term To-Do List	
	Submit official high school transcripts and AP/IB/CLEP exam scores
	Visit <a href="#">Engagement Center</a> (ST 108)
	Meet with a <a href="#">counselor</a> to personalize your EduNav plan and to <b>determine if you have already met the IGETC foreign language requirement through high school coursework</b>
	Register for ILA-800 each term to receive <a href="#">FREE tutoring</a>

✓ Second Term To-Do List	
	Visit the <a href="#">Counseling Center</a> (2nd floor of CSS)
	Meet with a Mustang Mentor
	Get involved in <a href="#">ASNC</a> or other <a href="#">student organizations</a>
	Look for internship, research or volunteer opportunities in your field (s) of interest

✓ Third Term To-Do List	
	Meet with a <a href="#">counselor</a> to verify your transfer status
	Attend <a href="#">Transfer Fair</a> , <a href="#">transfer workshops</a> and <a href="#">meet with university reps</a>
	Submit transfer applications (ask about UC TAG)
	Complete <a href="#">FAFSA</a> before march 2nd (include all transfer institutions that you applied to)

✓ Fourth Term To-Do List	
	Submit Degree Applications via <a href="#">WebAdvisor</a>
	Complete transfer application updates
	Finish strong and order final transcripts for your transfer institution along with IGETC certification

An **ENVIRONMENTAL SCIENCE** degree introduces the concepts and principles upon which environmental knowledge is based including the biological, chemical, and physical concepts underlying scientific theory and application to environmental issues. Students will develop skills for critical/analytical thinking, perceptive reading/observation and interpretation to apply to environmental concerns affecting our everyday lives.

## WHERE CAN I WORK?

- ◆ Army Corps of Engineers
- ◆ Bureau of Reclamation
- ◆ Bureau of Land Management
- ◆ City/County Waste Management
- ◆ Department of Agriculture
- ◆ Department of Energy
- ◆ Education
- ◆ Environmental Consulting Firm
- ◆ Environmental Research Lab
- ◆ Farms & Ranches
- ◆ Geological Survey Company
- ◆ Natural Resource Conservation
- ◆ Recycling Center
- ◆ Water Treatment Plant

## HOW DO I GET STARTED?

- ⇒ Visit the **Counseling Center** to learn about opportunities in the field and help determining if it is a good fit for your preferred values, strengths, skills, and interests. SSV 2<sup>nd</sup> floor.
- ⇒ Attend annual **TRANSFER FAIR** and **TRANSFER CENTER WORKSHOPS** to determine which university is the best fit for you as well as application requirements and transfer process.
- ⇒ Build **LABORATORY** and **RESEARCH SKILLS** through courses and/or work with professors.
- ⇒ **JOB SHADOW** and **NETWORK WITH PROFESSIONALS** in positions you wish to obtain.
- ⇒ Participate in the STEM Club to gain **TEAMWORK** and **LEADERSHIP SKILLS**.
- ⇒ Develop strong interpersonal **COMMUNICATION AND TECHNICAL WRITING SKILLS**.
- ⇒ Develop **DECISION-MAKING** and **PROBLEM-SOLVING** skills, diplomacy and the ability to work under pressure.
- ⇒ Stay informed on current environmental issues (policy, conservation, and industry trends).
- ⇒ Participate on planning boards, commissions and committees to stay abreast of local planning and conservation initiatives.
- ⇒ Join **PROFESSIONAL ASSOCIATION** such as the American Geoscience Institute, the National Association of Environmental Professionals, or the National Council for Science and the Environment to network and maintain current knowledge of opportunities in the field.

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

Position Title	CA Annual Openings	CA Median Salary	In Riverside County Wages will Support
<a href="#">Environmental Protection Tech</a>	630	\$50,770	1 adult
<a href="#">Forest &amp; Conservation Tech</a>	920	\$47,320	1 adult
<a href="#">Laboratory Technician</a>	1,640	\$58,120	1 adult, 1 child
<a href="#">Medical Laboratory Technician</a>	1,640	\$58,120	1 adult, 1 child
<a href="#">Recycling Coordinator</a>	2,910	\$55,350	1 adult
<a href="#">Teachers Assistant</a>	17,710	\$35,380	1 adult

## WHAT SKILLS DO I NEED?

- ⇒ **Active Listening** — giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- ⇒ **Critical Thinking** — using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- ⇒ **Reading Comprehension** — understanding written sentences and paragraphs in work related documents.
- ⇒ **Science** — using scientific rules and methods to solve problems.
- ⇒ **Speaking** — talking to others to convey information effectively.

### WHAT CAN I DO WITH MORE EDUCATION AND TRAINING?

Position Title	CA Annual Openings	CA Median Salary	In Riverside County Wages will Support
<a href="#">Climate Change Analyst</a>	1,630	\$87,360	1 adult, 3 children
<a href="#">Environmental Compliance Inspector</a>	3,200	\$80,610	1 adult, 2 children
<a href="#">Environmental Economist</a>	130	\$109,020	2 adults, 4 children
<a href="#">Environmental Engineer</a>	560	\$102,100	2 adults, 3 children
<a href="#">Environmental Scientist</a>	1,630	\$87,360	1 adult, 3 children
<a href="#">Geoscientist</a>	440	\$92,130	1 adult, 3 children
<a href="#">Hydrologist</a>	800	\$95,290	2 adults, 3 children
<a href="#">Soil &amp; Water Conservationist</a>	130	\$79,180	1 adult, 2 children

### ESTIMATED COST TO OBTAIN ASSOCIATE DEGREE

60 Units x \$46 per unit (CA residents) = \$2,760      Health, ASNC, Parking Fees (x 4 terms) = \$360  
 Books & Supplies = \$3,944      **Total Cost = \$7,064**

## PREFERRED WORK STYLES INCLUDE:

- ⇒ **Attention to Detail** — being careful about detail and thorough in completing work tasks.
- ⇒ **Integrity** — being honest and ethical.
- ⇒ **Dependability** — being reliable, responsible, and dependable, and fulfilling obligations.
- ⇒ **Analytical Thinking** — analyzing information and using logic to address work-related issues and problems.
- ⇒ **Cooperation** — being pleasant with others on the job and displaying a good-natured, cooperative attitude.

For more information about careers, education and training requirements, salary data, and job outlooks visit [www.onetonline.org](http://www.onetonline.org), [www.bls.gov](http://www.bls.gov) or [www.labormarketinfo.edd.ca.gov/OccGuides](http://www.labormarketinfo.edd.ca.gov/OccGuides).