

Environmental Sciences – What is it?

Environmental Science is an interdisciplinary study of the natural world and the complexity of environmental problems that impact the quality of life. Environmental Scientists apply scientific knowledge to solve environmental problems and provide solutions to protect, preserve and sustain the natural environment.

Areas of study in Environmental Sciences: Biology, Chemistry, Geography, Geology, Oceanography, Ecology, Climate Sciences, Biometrics, Environmental Impact and Risk Assessment, Ethics, Environmental Toxicology, Air and Water Quality, Population and Resources, Urban Planning and Resource Conservation.

Where does my path start?

You will complete an Associate of Science-Transfer (AS-T) Track 1 at Shoreline.

Use the AS-T Track 1 **Degree Planning Guide** to understand the requirements for graduation.

Once you complete your Shoreline degree, you can transfer to a four-year school to earn a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) in Environmental Sciences.

Environmental Sciences are excellent preparation for graduate studies in Science, Social Sciences, Public Policy, Education, Business and Law.

Where can I go for help?

Program Faculty Advisors

Emanuela Agosta 206-546-4659
eagosta@shoreline.edu Rm 5349

Matt Loper 206-546-4683
mloper@shoreline.edu Rm 5351

Brian Saunders 206-546-5884
bsaunders@shoreline.edu Rm 2818

Tiffany Meier 206-546-6953
tmeier@shoreline.edu Rm 5231

General Academic Advising

FOSS (5000) Building, Rm. 5229
206-546-4559
advising@shoreline.edu
www.shoreline.edu/advising

For course information and entry codes, contact:

biologyadvising@shoreline.edu
chemistryadvising@shoreline.edu
mathadvising@shoreline.edu

International Student Academic Advising

9000 Building, Rm. 9302
206-546-4697
ieadvisors@shoreline.edu
www.shoreline.edu/international/advising/

Career Planning

www.shoreline.edu/job-career-services/

Where can I transfer?

The AS-T makes it possible for students to transfer to a number of public and private colleges and universities in the U.S. with junior standing. Washington state institutions are listed below with Environmental Sciences major.

[Central Washington University](#)
[Eastern Washington University](#)
[Heritage University](#)
[Northwest University](#)
[Seattle University](#)
[University of Washington – Seattle](#)
[University of Washington – Bothell](#)

[University of Washington – Tacoma](#)
[Washington State University – Pullman](#)
[Washington State University – Richland](#)
[Washington State University – Vancouver](#)
[Western Washington University](#)
[Walla Walla University](#)

What can I do with a Bachelor's Degree in Environmental Sciences?

Environmental Scientists develop strong scientific, critical thinking, problem solving, and communication skills to work as environmental scientists, wildlife biologists, fish and marine biologists, safety and health inspectors, ecologists, urban planners, consultants, policy makers and educators.

Potential employers include: Environmental Protection Agency, Natural Resource Conservation Services, Local, State and Federal Agencies, Consulting Firms, Water and Waste Management Companies, National Forest Service, Law Firms, Urban Planning Councils, Colleges and Universities and Non-Profit Organizations. For more, please visit www.shoreline.edu/job-career-services/.

What courses should I take?*

I. GENERAL EDUCATION REQUIREMENTS | 20 Credits

ENGL &101
 ENGL &102, &230, or CMST &101
 Multicultural Understanding
 Quantitative/Symbolic Reasoning (MATH &151)

III. PRE-MAJOR PROGRAM I 45 credits

| Chemistry | 19.5 Credits | QTR | GR | CR |
|--------------|----------------|-----|----|-----|
| CHEM 171/181 | Fall, Win, Spr | | | 6.5 |
| CHEM 172/182 | Win, Spr, Sum | | | 6.5 |
| CHEM 173/183 | Spr, Sum, Fall | | | 6.5 |

| Mathematics | 10 Credits | QTR | GR | CR |
|------------------|------------|-----|----|----|
| MATH &152 | | | | 5 |
| MATH &163 or 211 | | | | 5 |

| Biological Sciences | 15 Credits | QTR | GR | CR |
|---------------------|------------|-----|----|----|
| BIOL &211 | | | | 5 |
| BIOL &212 | | | | 5 |
| BIOL &213 | | | | 5 |

II. DISTRIBUTION REQUIREMENTS | 15 Credits

One course in Humanities
 One course in Social Sciences
 A third course in either Humanities or Social Sciences

MAJOR SCIENCE SEQUENCE AND/OR SUPPORT COURSES – minimum 10 Credits for AS degree

| Recommended Courses | QTR | GR | CR |
|---|-----|----|----|
| BIOL 144 | | | |
| GEOG 203 and 204 | | | |
| GEOL &101 and 110 | | | |
| OCEA &101 | | | |
| MATH &163 or 211 (if not used for Math) | | | |
| MATH 207 | | | |
| ENVS &101 | | | |
| CHEM &241/271 and CHEM &242/272 | | | |

What does my chosen four-year school require?

Before choosing classes, become familiar with the four-year program where you want to apply: visit the website, email the department, and/or speak with a Shoreline advisor. Below are examples from Washington schools with different admissions and graduation requirements. Check with the school for world language requirements. (Non-native speakers of English are often exempt from this requirement.)

| School | Degrees | Requirements |
|------------------------------------|--|---|
| Western Washington University | B.S in Environmental Science; offers many different emphasis areas | Take as many preparatory classes as possible prior to transfer from the following: BIOL &211- &213; CHEM 171/181, 172/182, 173/183; ECON &201; MATH &151; GEOG 203 or 204; any Communication class; any Political Science class |
| University of Washington – Seattle | B.S. in Environmental Science and Resource Management; B.S. in Bioresource Science and Engineering | Recommended coursework: CHEM &121/131 or CHEM 171/181, 172/182, 173/183; CMST &101 or &220; ENGL &101; MATH &142; BIOL &211-&213 (must take all three at SCC or take them all at UW) |
| University of Washington – Bothell | B.S. in Earth Systems Science; B.S. in Conservation and Restoration Ecology | MATH &151; CHEM 171/181, 172/182, 173/183; BIOL &211-&213; ENVS &101; one course in Geography, Oceanography, or equivalent |

**** This unofficial guide is intended to support you as you prepare for your major. Please consult with an advisor and your chosen four-year school(s), as program and admissions requirements vary and may change without notice.**