


Environmental Science/Studies



GENERAL INFORMATION

Environmental Science/Studies includes the study of living organisms in relation to their environments and the impact of human society and technology on those ecosystems. Students interested in global sustainability issues will find this an appropriate program of study. Environmental science may be approached with an emphasis in the biological sciences, in legal issues, in economics, or in computer-modeled systems. In all of these cases, the student will need to finish a baccalaureate (4-year) degree, which may be a Bachelor of Science (BS) or a Bachelor of Arts (BA). The first two years of courses (or more if pre-college level courses are required) can be taken at the community college, and the junior and senior year completed at a 4-year college or university.

For those students planning to transfer to a 4-year college or university within the state of Washington, Everett Community College offers two pathways as options towards transfer to a university. Depending on the ultimate career goal, students can pursue a degree in Environmental Science or Environmental Studies. Both of these degrees are AAS-Option II degrees, but the specific coursework for each varies. Students are strongly encouraged to discuss their interests with an advisor early in their studies at EvCC. Each of them requires advance planning to meet prerequisites.

 **The Associate in Arts and Sciences – Option II** meets guidelines for direct transfer to most colleges and universities in Washington, as well as to the major public universities in Oregon. The degree enables the student to complete basic distribution requirements in Math, English, Humanities, Social Sciences and Natural Sciences, and to begin the major course of study. Depending upon the student's intended major, this option may or may not meet all of the prerequisites for the major. It is very important to discuss this with an advisor.

CAREER OPTIONS

Students pursuing an undergraduate (baccalaureate) degree in Environmental Science/Studies have a broad variety of career options. Sample career fields in Environmental Science include: Sustainable Forest Management, Wildlife Conservation, Wildlife Biologist, Fisheries or Marine Biologist, Park Ranger or Toxicologist. Students interested in fields such as urban planning, GIS database manager, Environmental Advocate or Environmental Education, Planning and Policy, Geography, Economics or Journalism would be more likely to follow the Environmental Studies options. Students interested in being a Park Ranger can follow either pathway. Combined degrees with economics, journalism or education are also available. Career options are also available in law, business and industry. In some cases, there may be opportunities for traveling or living abroad. More career information is available through EvCC's Career Center, Third Floor, Parks Student Union.

SUGGESTED PREPARATION

High school study in math, biology, chemistry and physics is very helpful, so that college level courses in these subjects can be immediately pursued. Additionally, writing and communication skills are important.

Any degree in the Environmental Science/Studies requires a solid background in English (2 quarters), Math and Chemistry, as well as introductory Biology (see suggested courses below). Some transfer institutions will also require two to three quarters of college level foreign language; in some cases study of a foreign language in high school will be accepted as a substitute. For specific requirements in your area of interest or for the school to which you wish to transfer, it is strongly recommended that you contact an EvCC advisor (next page) AND contact the transfer institution.

Students choosing Environmental Studies at WWU will take non-majors' biology and chemistry courses. Environmental Studies requires majors level biology & chemistry at UW and WSU.

Many options for majors at a variety of institutions exist for students. The earlier in their academic career that students seek advising, the more opportunity exists to explore career options in Environmental Studies or Environmental Science.

Please contact a Program Advisor (see below) prior to the first quarter of enrollment, if at all possible.

PROGRAM ADVISORS

It is helpful to consult with university advisors, as well as EvCC advisors. Please contact one of these EvCC advisors to help you select which degree pathway to follow, and to map out your program of study.

- Pamela Pape-Lindstrom, Shuksan 118
425-388-9480, ppape@everettcc.edu
- Fayla Schwartz, Shuksan 117, 425-388-9451,
fschwartz@everettcc.edu
- René Kratz, Shuksan 121, 425-388-9503,
rkratz@everettcc.edu

WEBSITES

The following are websites of biology or environmental science departments at common transfer institutions:

- The Evergreen State College: www.evergreen.edu
- University of Washington: <http://www.cfr.washington.edu/Acad/undergrad/esrm/index.htm>
- University of Washington: <http://depts.washington.edu/poeweb/>
- University of Washington – Tacoma: <http://www.tacoma.washington.edu/ias/academics/bs/>
- Washington State University: www.wsu.edu or www.esrp.wsu.edu
- Washington State University (Vancouver): www.vancouver.wsu.edu/programs/sci/default.htm
- Western Washington University: www.wvu.edu or www.wvu.edu/depts/huxley/

(June 2008)

GETTING STARTED AT EVCC

Our Enrollment Services Office provides information about application, advising, orientation and registration for new and continuing students. Though advising is voluntary, all prospective and current students are invited to contact the Enrollment Services Office or the Counseling Advising and Career Center (CACC) if they would like to speak one-to-one with an advisor about getting started. Contact:

- ◆ Enrollment Services, Jackson Center, 425-388-9219, admissions@everettcc.edu
- ◆ CACC, Third Floor, Parks, 425-388-9263

COMMON COURSE NUMBERING

Courses listed with an ampersand in the course number (e.g. ENGL&101) reflect the new Common Course Numbering System. Courses in [brackets] are the “old” course numbers and may be used to satisfy requirements. For more information, go to www.everettcc.edu/ccn

Everett Community College does not discriminate on the basis of race, religion, creed, color, national origin, age, sex, sexual orientation, marital status, the presence of any physical, sensory or mental disability, or status as a disabled or Vietnam era veteran in its program and activities, or employment. The Vice President of Student Services has been designated to handle inquiries regarding student-related non-discrimination policies and can be reached at 2000 Tower Street, Everett, WA 98201, or by phone at (425)388-9589. The Associate Vice President of Human Resources has been designated to handle employment-related inquiries regarding the non-discrimination policies and can be reached at 2000 Tower Street, Everett, WA 98201, or by phone at (425)388-9232. This publication is effective **SEPTEMBER 2008**. The College reserves the right to change courses, programs, degrees and requirements. It is the student's responsibility to be aware of correct information by routinely checking with Enrollment Services and/or the advisors listed in this publication. Requirements applicable to all certificates and degrees are published in the College Catalog. Nothing contained herein shall be construed to create any offer to contract or any contractual rights.

For more information, call 425-388-9219, Everett Community College, 2000 Tower Street, Everett, WA 98201, www.everettcc.edu

Associate in Arts and Sciences - Option II

This checklist is targeted at transfer students with an interest in environmental science. Students should meet with an advisor and maintain this checklist while at Everett Community College. The quarter before expected completion, this checklist should be submitted with a diploma application to the Enrollment Services Office. This checklist refers to requirements listed in the curriculum guide titled "Associate in Arts and Sciences – Option II", which lists all the courses which are approved for the various categories of requirements. Note: Though courses in a foreign language are not required in the Option II degree, some universities may require 2 or 3 quarters of foreign language for admission or for graduation.

Student Name: _____ Advisor Signature: _____ Date: _____

- PROFICIENCY in Intermediate Algebra** _____
 (Where Completed/Course Title) (Year Completed) (Grade)
- COMPLETION of Diversity Course** _____
 (Where Completed/Course Title) (Year Completed) (Grade)

Course Number	Course Title	Credits	Quarter Completed	Grade
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BASIC COMMUNICATIONS SKILLS

ENGL& 101	English Composition I	5	_____	_____
ENGL& 102 or ENGL 103	_____	5	_____	_____

BASIC QUANTITATIVE SKILLS (5 credits)

MATH& 141	Pre-calculus: College Algebra	5	_____	_____
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HUMANITIES (15 credits from the Option II approved Humanities List. See Note 1.)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

SOCIAL SCIENCE (15 credits from the Option II approved Social Science List. See Note 1.)

ECON& 201	Micro Economics	5	_____	_____
POLS& 101 or POLS& 202 [201]	_____	5	_____	_____
_____	_____	_____	_____	_____

SCIENCE AND MATH (Minimum 15 credits. See Notes 1 and 2.)

BIOL& 221 [180]	Majors Ecology/Evolution	5	_____	_____
BIOL& 222 [200]	Majors Cell/Molecular	5	_____	_____
BIOL& 223 [220]	Majors Organismal Phys	5	_____	_____
CHEM& 161 [140]	General Chemistry with Lab I	5.5	_____	_____
CHEM& 162 [150]	General Chemistry with Lab II	5.5	_____	_____
CHEM& 163 [160]	General Chemistry with Lab III	5.5	_____	_____
GEOG 205	Physical Geography	5	_____	_____
MATH& 151 [152] (WWU) or		5	_____	_____
MATH& 148 [142] (UWT)	_____	5	_____	_____

SUGGESTED ELECTIVES

ENVS& 101 [165] or				
ENVS& 100 [101]	_____	5	_____	_____
GEOL 102 [101] (UWT)	Intro to Geological Science I	5	_____	_____
PHYS& 121 [117] (WSU)	General Physics I	5	_____	_____
PHYS& 122 [118] (WSU)	General Physics II	5	_____	_____
PHYS& 221/231 [121/131] and	Engineering Physics I	5	_____	_____
PHYS& 231 [131] (UWT)	Engineering Physics I Lab	5.5	_____	_____

Minimum 90 credits required, with minimum 2.0 GPA. (See Note 3.)

Note 1: Courses must be from 3 different disciplines. No more than 10 credits in any one discipline may be used in Humanities, Social Science & Science.

Note 2: Prerequisites: This program of study assumes the student has college level English and math skills. All new students are required to take the EvCC English and Math placement tests. All science courses require completion of ENGL 98 or placement into ENGL& 101. Chemistry courses require completion of MATH 99 [65] or equivalent placement, as well as completion of CHEM& 140 [98] or a high school chemistry course, completed within the last three years. BIOL& 221[180] may be taken after or concurrently with CHEM& 161 [140]. BIOL& 222 and 223 [200, 220] must be taken after CHEM& 161 [140]. CHEM& 261, 262, 263 [200, 201, 202] is offered in a sequence of Fall, Winter, Spring only; students must start in the Fall. Students who initially place in a high level math course do not need to take math courses below that level.

Note 3: Completion of all the listed courses may result in more than 90 credits being earned for the degree. The advantage is that the completion of these courses will enable you to progress more efficiently in your major at a university. Alternatively, some of the courses may be done at the university instead. Please consult with an advisor to decide the best option for you.

Associate in Arts and Sciences - Option II

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Student Name: _____ Advisor Signature: _____ Date: _____

- PROFICIENCY in Intermediate Algebra** _____
 (Where Completed/Course Title) (Year Completed) (Grade)
- COMPLETION of Diversity Course** _____
 (Where Completed/Course Title) (Year Completed) (Grade)

Course Number	Course Title	Credits	Quarter Completed	Grade
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BASIC COMMUNICATIONS SKILLS

ENGL& 101	English Composition I	5	_____	_____
ENGL& 102 or ENGL 103	_____	5	_____	_____

BASIC QUANTITATIVE SKILLS (5 credits)

MATH& 141 [140]	Pre-calculus: College Algebra	5	_____	_____
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HUMANITIES (15 credits from the Option II approved Humanities List. See Note 1.)

CMST& 220 [SPCH 101] (UW-ESRM)	Public Speaking	5	_____	_____
_____	_____	_____	_____	_____

SOCIAL SCIENCE (15 credits from the Option II approved Social Science List. See Note 1.)

ECON& 201	Micro Economics	5	_____	_____
POLS& 101 or POL& 202 [201]	_____	5	_____	_____

SCIENCE AND MATH (See Notes 1 and 2.)

BIOL& 221 [180] (UW, WSU)	Majors Ecology/Evolution	5	_____	_____
BIOL& 222 [200] (UW, WSU)	Majors Cell/Molecular	5	_____	_____
BIOL& 223 [220] (WSU)	Majors Organismal Phys	5	_____	_____
OR BIOL& 100 [102] WWU	Survey of Biology	5	_____	_____
CHEM& 121 [101] WWU	Introduction to Chemistry	5	_____	_____
CHEM& 161 [140] (UW, WSU)	General Chemistry with Lab I	5.5	_____	_____
CHEM& 162 [150] (UW, WSU)	General Chemistry with Lab II	5.5	_____	_____
Additional lab science (WWU)	_____	_____	_____	_____
GEOG 205 (WWU, UW)	Physical Geography	5	_____	_____
GEOL 102 [101] (UWT)	Intro to Geological Science I	5	_____	_____
MATH& 148 [142]	Business Calculus	5	_____	_____
MATH& 146 [281]	Introduction to Statistics	5	_____	_____

SUGGESTED ELECTIVES

ENVS& 101 [105] or ENVS& 100 [101]	_____	5	_____	_____
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Minimum 90 credits required, with minimum 2.0 GPA. (See Note 3.)

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