

Programs of Study Offered at NWIC

BACHELOR OF SCIENCE DEGREE NATIVE ENVIRONMENTAL SCIENCE

The Native Environmental Science Bachelor Degree is intended to meet the critical need for effective Native American leaders and environmental scientists who are rooted in their culture. This program will emphasize and explore the interrelatedness of Native ways of knowing, traditional ecological knowledge and "western" science. Prominent aspects of the program include hands-on learning and the involvement of students in community service, research and internships. The program will prepare graduates to work within tribal communities in support of environmental stewardship, conservation and revitalization. This program was designed with considerable input from Pacific Northwest Tribal elders, leaders, environmental managers, educators and students. Students may choose between the Environmental Science Option and the Interdisciplinary Concentration. Students must complete at least 60 credits at the 300-499 level.

ENVIRONMENTAL SCIENCE OPTION

The Environmental Science option is intended for students interested in pursuing careers in the fields of biology or environmental science using the tools of western science. Students completing this option may also be interested in pursuing graduate studies in environmental science. The Environmental Science option consists of 56 credits, 35 credits of which are required courses and 21 elective credits.

PREREQUISITE REQUIREMENTS

Students are expected to complete the AAS in Native Environmental Science degree or a program satisfying the Direct Transfer Agreement (DTA) requirements at NWIC or another college or university totaling 90 credits with the following courses or their equivalents as the foundation for junior standing in Native Environmental Science:

CHEM 111	Inorganic Chemistry, or CHEM 121	5
CHEM 112	Organic Chemistry	5
CHEM 113	Biochemistry	5
GEOL 101	Introduction to Geology, or 111 (101 suggested for environmental science option)	5
MATH 102	College Algebra	5
MATH 107	Elementary Statistics I	5
POLS 225	History of Federal Indian Policy	5

TOTAL PREREQUISITE COURSE REQUIREMENTS **35**

TOTAL PREREQUISITE REQUIREMENTS (including other DTA requirements) **90**

NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS – Must be taken at NWIC

NESC 301	The Ecology of the First People	3
NESC 310	Native Science	5
NESC 393A-C	Native Environmental Science Seminar III (1 credit per quarter for 3 quarters)	3
NESC 493A-C	Native Environmental Science Seminar IV (1 credit per quarter for 3 quarters)	3
NESC 497	Internship in Native Environmental Science	5
NESC 499A	Native Environmental Science Capstone Project (taken during the junior year)	5
NESC 499B	Native Environmental Science Capstone Project (taken during the senior year)	5
POLS 319	From the Beginning of Time: Native American Fishing Rights	5

TOTAL NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS **34**

ENVIRONMENTAL SCIENCE OPTION REQUIRED COURSES

BIOL 201	Cell Biology	5
BIOL 202	Plant Biology	5
BIOL 203	Animal Biology	5
BIOL 310	Ecology	5
MATH 210	Biostatistics	5

and

A COMBINATION OF TWO OF THE THREE FOLLOWING COURSES:

ENVS 430 OR	Aquatic Ecology, OR	5 each
ENVS 440 OR	Ecology of the Salish Sea, OR	
ENVS 481	Ecophysiology	

TOTAL ENVIRONMENTAL SCIENCE OPTION REQUIRED COURSES **35**

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BACHELOR OF SCIENCE DEGREE NATIVE ENVIRONMENTAL SCIENCE—continued

ELECTIVES

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Choose electives from BIOL, BUAD, CHEM, CMPS, COMH, ECON, ENVS, GEOG, GEOL, MATH, NASD, NESC, PHYS or POLS departments. A minimum of 11 credits must be at the 300-499 level. A maximum of 10 elective credits may be taken through individualized learning coursework (courses numbered 189, 289, 389, or 489) following the Native Environmental Sciences individualized course guidelines.

TOTAL ENVIRONMENTAL SCIENCE OPTION REQUIREMENTS

56

TOTAL NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS

90

TOTAL DEGREE REQUIREMENTS

180

INTERDISCIPLINARY CONCENTRATION OPTION

The Interdisciplinary Concentration allows students flexibility in designing a program that meets their own academic, professional and personal goals within the framework of the Native Environmental Science degree. Students design a concentration under the guidance of a concentration committee. The Native Environmental Science Program Handbook provides guidelines for constructing a concentration. This option requires students to take significant responsibility for the concentration's design and development. The Interdisciplinary Concentration consists of 56 credits, 5 credits of which are required courses, 30 credits of courses that already exist at NWIC or approved upper division courses at Western Washington University or another college or university, plus 21 credits of individualized courses developed within the student's concentration following the Native Environmental Sciences individualized learning course guidelines. At least 26 credits of the concentration courses, which include NESC 305, must be at the 300-499 level.

PREREQUISITE REQUIREMENTS

Students are expected to complete the AAS in Native Environmental Science degree or a program satisfying the Direct Transfer Agreement (DTA) requirements at NWIC or another college or university totaling 90 credits with the following courses or their equivalents as the foundation for junior standing in Native Environmental Science:

BIOL 101	Introduction to Biology, or BIOL 100, 130, or 201	5
CHEM 111	Inorganic Chemistry, or CHEM 121	5
GEOL 101	Introduction to Geology, or 111 (101 suggested for environmental science option)	5
MATH 102	College Algebra, or Math 107	5
POLS 225	History of Federal Indian Policy	5

TOTAL PREREQUISITE COURSE REQUIREMENTS

25

TOTAL PREREQUISITE REQUIREMENTS (Including other DTA requirements)

90

NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS – Must be Taken at NWIC

NESC 301	The Ecology of the First People	3
NESC 310	Native Science	5
NESC 393A-C	Native Environmental Science Seminar III (1 credit per quarter for 3 quarters)	3
NESC 493A-C	Native Environmental Science Seminar IV (1 credit per quarter for 3 quarters)	3
NESC 497	Internship in Native Environmental Science	5
NESC 499A	Native Environmental Science Capstone Project (taken during the junior year)	5
NESC 499B	Native Environmental Science Capstone Project (taken during the senior year)	5
POLS 319	From the Beginning of Time: Native American Fishing Rights	5

TOTAL NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS

34

INTERDISCIPLINARY CONCENTRATION REQUIREMENTS (Minimum 26 credits must be 300-499)

NESC 305	Native Environmental Science Concentration Seminar (taken 1st or 2nd quarter in concentration; prerequisite: NESC 303)	5
Existing courses taken within concentration		30
Individualized learning courses within concentration		21

Individualized learning courses focus on key areas of inquiry contained in the concentration, such as: relevant work experience, travel study projects, service learning, field school, and volunteer projects. At least 5 credits will be service learning project.

TOTAL INTERDISCIPLINARY CONCENTRATION REQUIREMENTS

56

TOTAL NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS

90

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