

PROGRAMS OF STUDY

BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

4/16/19
changes to
ESO/ICO

The Bachelor of Science in Native Environmental Science 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 (ESO) and the Interdisciplinary Concentration Option (ICO). Students must complete at least 60 credits at the 300-499 level.

Environmental Science Option

The Environmental Science Option (ESO) 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.

Freshman-Entry Alternative

This alternative is for students who enter the program at the freshman-level and continue through all four years of the program.

NORTHWEST INDIAN COLLEGE REQUIREMENTS		Credits
CMST 101	Introduction to Oral Communication (CS) OR	4
CMST 210	Interpersonal Communication (CS, HT) OR	
CMST 220	Public Speaking (CS, HT)	
CMPS 101	Introduction to Computers or above (TE)	3 ¹
HMDV 110	Introduction to Successful Learning (NE)	4 ¹
TOTAL NORTHWEST INDIAN COLLEGE REQUIREMENTS		11

① Students may transfer native

NORTHWEST INDIAN COLLEGE FOUNDATIONAL REQUIREMENTS		Credits
CSOV 101	Introduction to Cultural Sovereignty (HT)	5
CSOV 102	The Language of Our Ancestors (HT) or approved Native language courses ¹	5
CSOV 120	Reclaiming Our History (SS)	5
CSOV 130	Icons of Our Past (HT)	5
ECON 250	Subsistence Economies: Restoring Prosperity (SS)	5
EDUC 202	The Tide Has Changed: Educating Our Own (SS)	5
POLS 225	History of Federal Indian Policy (SS)	5
TOTAL NORTHWEST INDIAN COLLEGE FOUNDATIONAL REQUIREMENTS		35

¹ One or more Native language courses totaling at least 5 credits. Consult with an advisor regarding satisfying general education requirements. Requires approval by the Dean of Academics and Distance Learning.

GENERAL EDUCATION REQUIREMENTS		Credits
ENGL 101	English Composition I (CS)	5
ENGL 202	Technical Writing or ENGL 102 English Composition II (CS)	5
Quantitative Skills 5 credit requirement- met in Core Requirement		0
Humanities Distribution 15 credit requirement- met in Foundational Requirements		0
Social Science Distribution 15 credit requirement- met in Foundational Requirements		0
Natural Science Distribution 15 credit requirement- choose courses meeting Prerequisite Requirement		0
TOTAL GENERAL EDUCATION REQUIREMENTS		10

PREREQUISITE REQUIREMENTS		Credits
CHEM 121	General Chemistry I (NSL)	5
CHEM 122	General Chemistry II (NSL)	5
CHEM 123	General Chemistry III (NSL)	5
GEOL 101	Introduction to Geology (NSL)	5
MATH 102	College Algebra ² (QS)	5
MATH 107	Elementary Statistics I (QS)	5
TOTAL PREREQUISITE REQUIREMENTS		30

Take out Pre-req. language
Add these classes to
ESO requirements

² The MATH 102 requirement may also be satisfied by the following higher-level Math courses: MATH 103, MATH 105, MATH 124, MATH 125, or MATH 126.

BS in Native Environmental Science

ADD: CSOV 301 (5)
CSOV 302 (5)

PROGRAMS OF STUDY

BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

ADD: NESC 110 Intro to Native Env. Science (1)

NATIVE ENVIRONMENTAL SCIENCE CORE PROGRAM REQUIREMENTS		Credits
NESC 310	Native Science	5
NESC 393A-C	Native Environmental Science Seminar III (1 credit per quarter for 3 quarters)	3 Remove
NESC 493A-C	Native Environmental Science Seminar IV (1 credit per quarter for 3 quarters)	3 Remove
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 CORE PROGRAM REQUIREMENTS		31
ADD: MATH 210 (5)		
ENVIRONMENTAL SCIENCE OPTION REQUIRED COURSES		Credits
BIOL 201	Cell Biology (NSL)	5
BIOL 202	Plant Biology (NSL)	5
BIOL 203	Animal Biology (NSL)	5
BIOL 310	Ecology	5
MATH 210	Biostatistics (QS, NS)	5
And a combination of two of the three following courses:		10
ENVS 430	Aquatic Ecology OR	(5 each)
ENVS 440	Ecology of the Salish Sea OR	
ENVS 481	Ecophysiology	
TOTAL ENVIRONMENTAL SCIENCE OPTION REQUIREMENTS		35
30		50
FLECTIVES		Credits
Choose electives in consultation with a faculty advisor. A minimum of 19 elective credits must be at the 300-499 level. A maximum of 10 elective credits may be taken through individualized studies coursework (courses numbered 189, 289, 389, or 489) following the Native Environmental Sciences individualized studies course guidelines.		28
		43
TOTAL ELECTIVE REQUIREMENTS		28
		43
TOTAL DEGREE REQUIREMENTS, ESO, FRESHMAN-ENTRY		180



BS in Native Environmental Science

PROGRAMS OF STUDY

BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

Junior-Entry Alternative

This alternative is for students entering at the junior level after earning an approved Associate in Arts and Sciences or the equivalent from NWIC or another institution. Students who have completed another type of associate's degree should consult with an advisor because additional coursework may be necessary to complete program requirements. Students transferring from another college may apply up to 90 credits toward completion of the program. Students must complete at least 180 credits, 60 of which are at the 300-499 level, in order to graduate.

PRIOR CREDITS Credits

Prior Credits	From an NWIC associate's degree or a transfer degree	90
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TOTAL PRIOR CREDITS **90**

PREREQUISITE REQUIREMENTS Credits

Students are expected to complete the prerequisite courses as preparation for the Native Environmental Science core and required courses.

CHEM 121	General Chemistry I (NSL)	ADD: Intro to Native Science	5 (5)
CHEM 122	General Chemistry II (NSL)	NESC 110	5
CHEM 123	General Chemistry III (NSL)		5
GEOL 101	Introduction to Geology (NSL)		5
MATH 102	College Algebra (QS)		5
MATH 107	Elementary Statistics I (QS)		5

TOTAL PREREQUISITE COURSE REQUIREMENTS ~~30~~ = 21 / 90

¹ The MATH 102 requirement may also be satisfied by the following higher-level Math courses: MATH 103, MATH 105, MATH 124, MATH 125, or MATH 126.

NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS Credits

CSOV 300	Cultural Sovereignty Transfer Seminar ²		5 ADD CSOV 300
NESC 310	Native Science		5 (5)
NESC 393A-C	Native Environmental Science Seminar III (1 credit per quarter for 3 quarters)		3 CSOV 300
NESC 493A-C	Native Environmental Science Seminar IV (1 credit per quarter for 3 quarters)		3 (5)
NESC 497	Internship in Native Environmental Science		5 MATH 210
NESC 499A	Native Environmental Science Capstone Project (taken during the junior year)		5 (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 ~~36~~ = 35

² Students who have completed CSOV 101 or the equivalent at NWIC or another institution need to enroll in 5 credits of upper-division coursework in place of CSOV 300.

ENVIRONMENTAL SCIENCE OPTION REQUIRED COURSES Credits

BIOL 201	Cell Biology (NSL)	ADD	5
BIOL 202	Plant Biology (NSL)		5
BIOL 203	Animal Biology (NSL)		5
BIOL 310	Ecology		5
MATH 210	Biostatistics (QS, NS)		5 (GOBE)

And a combination of two of the three following courses:

ENVS 430	Aquatic Ecology OR	ADD: MATH 102 (5)	5
ENVS 440	Ecology of the Salish Sea OR	MATH 107 (5)	(5 each)
ENVS 481	Ecophysiology		

TOTAL ENVIRONMENTAL SCIENCE OPTION REQUIRED COURSES **35**

ELECTIVES Credits

Choose electives in consultation with a faculty advisor. Prerequisite courses completed following transfer may be included as electives. A minimum of 14 elective credits must be at the 300-499 level. A maximum of 10 elective credits may be taken through individualized studies coursework (courses numbered 189, 289, 389, or 489) following the Native Environmental Sciences individualized studies course guidelines.

TOTAL DEGREE REQUIREMENTS, ESO, JUNIOR-ENTRY **180**

BS in Native Environmental Science

PROGRAMS OF STUDY

BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

Interdisciplinary Concentration Option

The Interdisciplinary Concentration Option (ICO) 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.

Freshman-Entry Alternative

This alternative is for students who enter the program at the freshman-level and continue through all four years of the program.

NORTHWEST INDIAN COLLEGE REQUIREMENTS Credits

CMST 101	Introduction to Oral Communication (CS) OR	4
CMST 210	Interpersonal Communication (CS, HT) OR	
CMST 220	Public Speaking (CS, HT)	
CMPS 101	Introduction to Computers or above (TE)	3
HMDV 110	Introduction to Successful Learning (NE)	4

TOTAL NORTHWEST INDIAN COLLEGE REQUIREMENTS 11

NORTHWEST INDIAN COLLEGE FOUNDATIONAL REQUIREMENTS Credits

CSOV 101	Introduction to Cultural Sovereignty (HT)	5
CSOV 102	The Language of Our Ancestors (HT) or approved Native language courses ¹	5
CSOV 120	Reclaiming Our History (SS)	5
CSOV 130	Icons of Our Past (HT)	5
ECON 250	Subsistence Economies: Restoring Prosperity (SS)	5
EDUC 202	The Tide Has Changed: Educating Our Own (SS)	5
POLS 225	History of Federal Indian Policy (SS)	5

TOTAL NORTHWEST INDIAN FOUNDATIONAL REQUIREMENTS 35

¹ One or more Native language courses totaling at least 5 credits. Consult with an advisor regarding satisfying general education requirements. Requires approval by the Dean of Academics and Distance Learning.

GENERAL EDUCATION REQUIREMENTS Credits

ENGL 101	English Composition I (CS)	5
ENGL 102	English Composition II (CS) OR	5
ENGL 202	Technical Writing (CS)	
Quantitative Skills 5 credit requirement- met in Prerequisite Requirements		0
Humanities Distribution 15 credit requirement- met in Foundational Requirements		0
Social Sciences Distribution 15 credit requirement- met in Foundational Requirements		0
Natural Sciences Distribution 15 credit requirement- met in Prerequisite Requirements		0

TOTAL GENERAL EDUCATION REQUIREMENTS 10

PREREQUISITE REQUIREMENTS Credits

Students are expected to complete the prerequisite courses as preparation for the Native Environmental Science core and Interdisciplinary Concentration Option requirements.

BIOL 101	Introduction to Biology, or BIOL 100, 130, or 201 (NSL)	5
CHEM 121	General Chemistry (NSL)	5
GEOL 101	Introduction to Geology (NSL)	5
MATH 107	Elementary Statistics I ² (QS)	5

TOTAL PREREQUISITE COURSE REQUIREMENTS 20

² MATH 107 is the recommended course for students who may not plan on pursuing graduate studies where additional precalculus or calculus-based math coursework is required. Consult with a faculty advisor in choosing the best math course for your area of interest. Students may also satisfy this mathematics requirement by taking MATH 102, MATH 103, MATH 105, MATH 124, MATH 125, MATH 126, or MATH 210. *(Revised language)*

ELECTIVE CREDITS TO TOTAL AAS DEGREE REQUIRED 90 CREDITS 14

Waivers Available by advisor

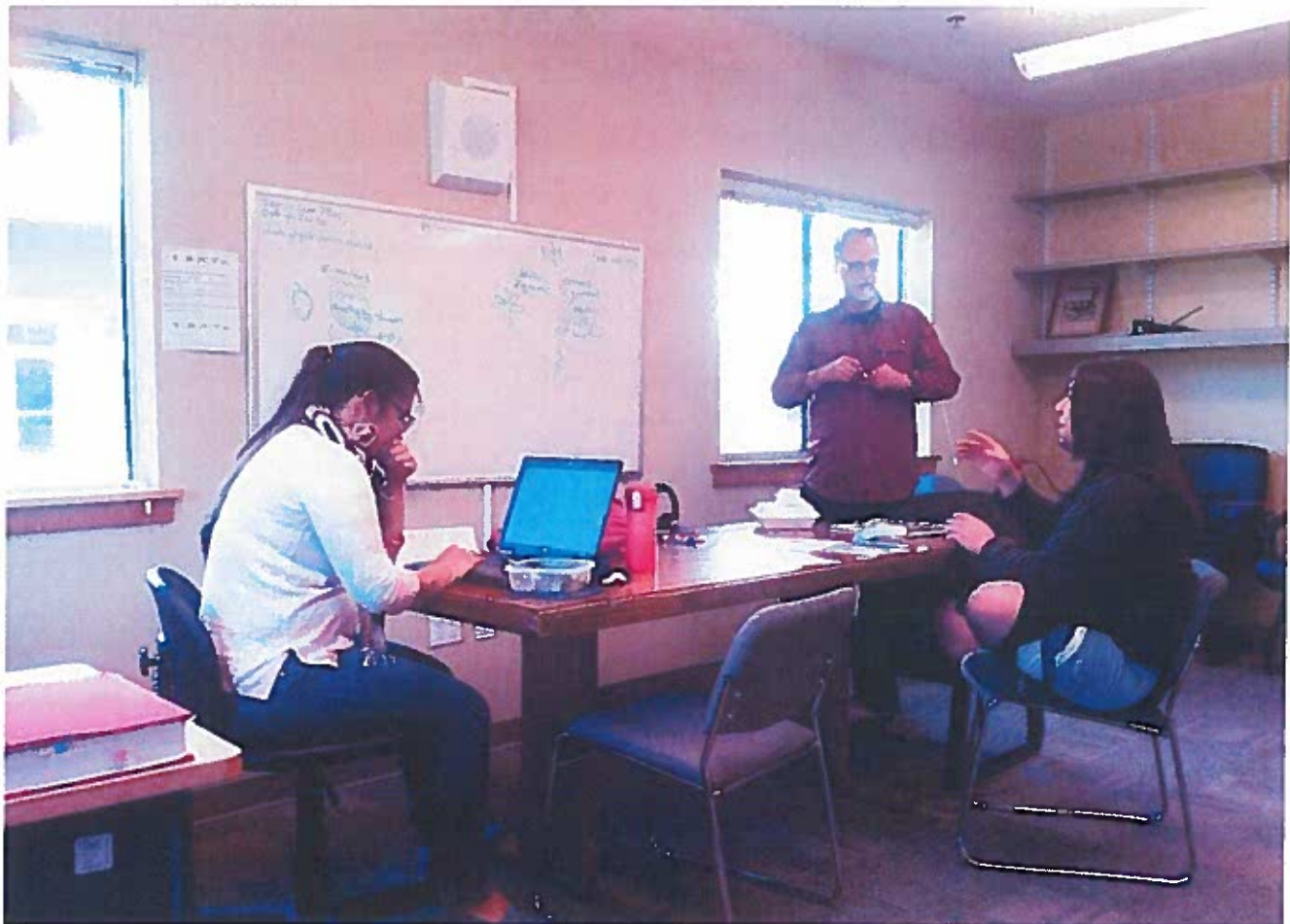
moved to ICO Required Courses

BS in Native Environmental Science

PROGRAMS OF STUDY

BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS		Credits
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 499	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		31
INTERDISCIPLINARY CONCENTRATION OPTION REQUIREMENTS		Credits
Minimum 29 credits must be 300-499		
NESC 305	Native Environmental Science Concentration Seminar (taken the 1st or 2nd quarter in concentration)	5
Individualized studies courses within concentration ³		22 10
Selected courses taken within concentration as approved in Interdisciplinary Concentration Option proposal		33 40
³ Individualized studies 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. It is suggested that at least 5 credits of the interdisciplinary concentration coursework contain a service learning component.		
TOTAL INTERDISCIPLINARY CONCENTRATION OPTION REQUIREMENTS		59 75
TOTAL DEGREE REQUIREMENTS, ICO, FRESHMAN-ENTRY		180



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BACHELOR OF SCIENCE IN NATIVE ENVIRONMENTAL SCIENCE

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PRIOR CREDITS		Credits
Prior Credits	From an NWIC associate's degree or a transfer degree	90

TOTAL PRIOR CREDITS	90
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PREREQUISITE REQUIREMENTS		Credits
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Students are expected to complete the prerequisite courses as preparation for the Native Environmental Science core and Interdisciplinary Concentration Option requirements.

BIOL 101	Introduction to Biology, or BIOL 100, 130, or 201 (NSL)	5
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CHEM 121	General Chemistry (NSL)	5
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GEOL 101	Introduction to Geology (NSL)	5
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MATH 107	Elementary Statistics I ¹	5
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TOTAL PREREQUISITE COURSE REQUIREMENTS	20
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¹ MATH 107 is the recommended course for students who may not plan on pursuing graduate studies where additional precalculus or calculus-based math coursework is required. Consult with a faculty advisor in choosing the best math course for your area of interest. Students may also satisfy this mathematics requirement by taking MATH 102, MATH 103, MATH 105, MATH 124, MATH 125, MATH 126, or MATH 210.

NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS		Credit
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CSOV 300	Cultural Sovereignty Transfer Seminar ²	5
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NESC 310	Native Science	5
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NESC 393A-C	Native Environmental Science Seminar III (1-credit-per-quarter for 3-quarters)	3
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NESC 493A-C	Native Environmental Science Seminar IV (1-credit-per-quarter for 3-quarters)	3
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NESC 497	Internship in Native Environmental Science	5
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NESC 499A	Native Environmental Science Capstone Project (taken during the junior year)	5
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NESC 499B	Native Environmental Science Capstone Project (taken during the senior year)	5
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POLS 319	From the Beginning of Time: Native American Fishing Rights	5
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TOTAL NATIVE ENVIRONMENTAL SCIENCE CORE REQUIREMENTS	35
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² Students who have completed CSOV 101 or the equivalent at NWIC or another institution need to enroll in 5 credits of upper-division coursework in place of CSOV 300. Note: 5 credits of NESC 499 required. (10 available)

INTERDISCIPLINARY CONCENTRATION OPTION REQUIREMENTS (MINIMUM 24 CREDITS MUST BE 300-499)		Credits
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NESC 305	Native Environmental Science Concentration Seminar (taken the 1st or 2nd quarter in concentration)	5
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Individualized studies courses within concentration ³	22 10
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Selected courses taken within concentration as approved in Interdisciplinary Concentration Option proposal ⁴	28 40
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³ Individualized studies 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. It is suggested that at least 5 credits of the interdisciplinary concentration coursework contain a service learning component.

⁴ A total of 28 credits of selected courses within the concentration is required. Some of these credits may also be used to satisfy prerequisite requirements. Choose selected courses in consultation with the concentration committee as part of the Interdisciplinary Concentration Option proposal.

TOTAL INTERDISCIPLINARY CONCENTRATION OPTION REQUIREMENTS	54
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TOTAL DEGREE REQUIREMENTS, ICO, JUNIOR-ENTRY	180
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