

**PROGRAM REVISION FORM**

**Program Title:** Native Environmental Science

**Program Type:** X AAS    AAS-T    AST    ATA    Certificate    Other

**Revised Catalog Description** (one paragraph):  
Unchanged – see attached

**Requested by:** Bernice Portervint **Date:** April 24, 2014

**Dean of Academics:** \_\_\_\_\_ **Date:** \_\_\_\_\_

*\* Attach copy of program description as in current catalog*

*\* Attach copy of revised program, marking changes. New courses must be approved prior to approval of revised program.*

**Rationale for Changes:** Incorporation of foundational courses into program of study

**FORM MUST BE ACCOMPANIED BY PROGRAM OUTCOMES**

Approval Signatures:

\_\_\_\_\_  
*Curriculum Committee Chair*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Vice President for Instruction and Student Services*

\_\_\_\_\_  
*Date*

## Associate of Arts and Science in Native Environmental Science

This program of study provides a foundation in the sciences, Native American studies, and general education courses as preparation for continuing toward the Bachelor of Science in Native Environmental Science program. The program is a direct transfer degree designed for students who may be interested in a baccalaureate degree at Northwest Indian College or another four-year college or university. . Students completing the Associate of Arts and Sciences in Native Environmental Science will be prepared to continue in the Bachelor of Science in Native Environmental Science degree program at the junior level with all prerequisites met.

### NORTHWEST INDIAN COLLEGE REQUIREMENTS

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

### NORTHWEST INDIAN COLLEGE FOUNDATIONAL REQUIREMENTS

CSOV 101	Introduction to Cultural Sovereignty (HT)	5
CSOV 102	The Language of Our Ancestors (HT) or approved Native language courses <sup>1</sup>	5
CSOV 120	Reclaiming Our History (SS)	5
POLS 225	History of Federal Indian Policy (SS)	5
<b>TOTAL NORTHWEST INDIAN COLLEGE FOUNDATIONAL REQUIREMENTS</b>		<b>20</b>

<sup>1</sup> 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

ENGL 101	English Composition I (CS)	5
ENGL 102 OR	English Composition II (CS) OR	
ENGL 202	Technical Writing (CS)	5
Quantitative Skills - all 5 cr. required. Met in core		0
Humanities Distribution - 10 of 15 cr. met in Foundational Requirements. Need 5 cr. HT or HP not in CSOV		5
Social Science Distribution - 10 of 15 cr. met in Foundational Requirements. Need 5 cr. SS not in CSOV		5
Natural Science Distribution - all 15 cr. required. Met in core		0
<b>TOTAL GENERAL EDUCATION REQUIREMENTS</b>		<b>20</b>

### CORE PROGRAM REQUIREMENTS

BIOL 101	Introduction to Biology or BIOL 100, 111, 130, or 201 <sup>2</sup> (NSL)	5
CHEM 111 <sup>2</sup>	Inorganic Chemistry, or CHEM 121 (NSL)	5
GEOL 101 <sup>2</sup>	Introduction to Geology, or GEOL 111 (NSL)	5
MATH 102 OR	College Algebra or higher (MATH 103, 105, or 124) (QS)	
MATH 107	Elementary Statistics (QS)	
<b>TOTAL CORE PROGRAM REQUIREMENTS</b>		<b>15</b>

<sup>2</sup>Suggested for Environmental Science Option. See Bachelor of Science in Native Environmental Science description for details

### ELECTIVES 24

Students wanting to pursue the Environmental Science Option in the Bachelor of Science in Native Environmental Science program are encouraged to also complete the following courses as part of elective choices. Completion of these courses will require that the student complete more credits than the 90 credits necessary for this degree.

CHEM 112	Organic Chemistry (NSL)	5
CHEM 113	Biochemistry (NSL)	5
Both MATH 107 Elementary Statistics I and MATH 102 College Algebra (QS)		5
BIOL 202	Plant Biology (NSL)	5
BIOL 203	Animal Biology (NSL)	5

### TOTAL DEGREE REQUIREMENTS 90

# PROGRAMS OF STUDY

## ASSOCIATE OF ARTS AND SCIENCES IN NATIVE ENVIRONMENTAL SCIENCE

This program of study provides a foundation in the sciences, Native American studies, and general education courses as preparation for continuing toward the Bachelor of Science in Native Environmental Science program. The program is a direct transfer degree designed for students who may be interested in a baccalaureate degree at Northwest Indian College or another four-year college or university. Students completing the Associate of Arts and Sciences in Native Environmental Science will be prepared to continue in the Bachelor of Science in Native Environmental Science degree program at the junior level with all prerequisites met.

### NORTHWEST INDIAN COLLEGE REQUIREMENTS

CMPS 101	Introduction to Computers, or above	3
HMDV 110	Introduction to Successful Learning	4
NASD 105A-C	Northwest Indian College Seminar (1 credit per quarter for 3 quarters)	3
<b>TOTAL NORTHWEST INDIAN COLLEGE REQUIREMENTS</b>		<b>10</b>

### GENERAL EDUCATION REQUIREMENTS

ENGL 101	English Composition I	5
ENGL 102 OR	English Composition II OR	5
ENGL 202	Technical Writing	
CMST 101 OR	Introduction to Oral Communications OR	4
CMST 210 OR	Interpersonal Communications OR	
CMST 220	Public Speaking	
MATH 102 OR	College Algebra	5
MATH 107	Elementary Statistics I	
Natural Science NASD Requirement: BIOL 104 or ENVS 201 or ENVS 240 (NS.NASD)		5
Humanities Distribution (At least 5 credits must be coded NASD)		15
Social Sciences Distribution (5 credits met in core)		0
Natural Sciences Distribution (all credits met in core)		0
Electives— Any course numbered 100 to 299		8
<b>TOTAL GENERAL EDUCATION REQUIREMENTS</b>		<b>57</b>

### CORE NATIVE ENVIRONMENTAL SCIENCE REQUIREMENTS

BIOL 101	Introduction to Biology or BIOL 100, 111, 130, or 201* (NSL)	5
CHEM 111*	Inorganic Chemistry, or CHEM 121 (NSL)	5
GEOL 101*	Introduction to Geology or GEOL 111 (NSL)	5
NESC 293A-C	Native Environmental Science Seminar II (1 credit per quarter for 3 quarters)	3
POLS 225	History of Federal Indian Policy (SS, NASD)	5
<b>TOTAL CORE NATIVE ENVIRONMENTAL SCIENCE REQUIREMENTS</b>		<b>23</b>

\*Suggested for Environmental Science Option, see Bachelor of Science in Native Environmental Science description for details.

# PROGRAMS OF STUDY

## ASSOCIATE OF ARTS AND SCIENCES IN NATIVE ENVIRONMENTAL SCIENCE

Students wanting to pursue the Environmental Science option in the Bachelor of Science in Native Environmental Science program are encouraged to complete the following courses as part of their elective choices:

CHEM 112	Organic Chemistry (NSL)	5
CHEM 113	Biochemistry (NSL)	5
MATH 102	College Algebra (QS)	5
MATH 107	Elementary Statistics I (QS)	5
BIOL 202	Plant Biology (NSL)	5
BIOL 203	Animal Biology (NSL)	5
TOTAL DEGREE REQUIREMENTS		90

### PROGRAM OUTCOMES

#### WRITTEN COMMUNICATION STUDENTS WILL BE ABLE TO:

- Express themselves effectively using a variety of writing styles.
- Write a research paper.

#### QUANTITATIVE REASONING STUDENTS WILL BE ABLE TO:

- Collect, organize, analyze and synthesize data.
- Graph and understand equations.
- Use mathematics to depict relationships and to solve problems.

#### ORAL COMMUNICATION STUDENTS WILL BE ABLE TO:

- Communicate effectively.
- Analyze the audience and modify the communication to suit that audience.
- Evaluate the effectiveness of the communication and make adjustments if and where necessary.
- Use exposition, negotiation, persuasion and argumentation.

#### BODIES OF KNOWLEDGE STUDENTS WILL BE ABLE TO:

- Demonstrate competence in chemistry, biology and other foundational bodies of knowledge that support scientific understanding.
- Demonstrate familiarity with local ecosystems.

#### “WAYS OF FINDING OUT” STUDENTS WILL BE ABLE TO:

- Read and understand scientific literature.
- Design and conduct a simple experiment.
- Understand how to ask to learn traditional knowledge.
- View the environment from a past, present and future perspective.

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# PROGRAMS OF STUDY

## ASSOCIATE OF ARTS AND SCIENCES IN NATIVE ENVIRONMENTAL SCIENCE

### PROGRAM OUTCOMES (CONT.)

#### TECHNOLOGY STUDENTS WILL BE ABLE TO:

- Use a spreadsheet program to enter and analyze data.
- Use presentation software.
- Discuss the limitations of technology

#### LEADERSHIP AND EFFECTIVENESS STUDENTS WILL BE ABLE TO:

- Articulate the diversity in spirituality, culture and language.
- Articulate their own identity in terms of a sense of place and their people.
- Demonstrate knowledge of Native American and other models of leadership.
- Demonstrate effective leadership skills.

