**NWIC Program Review Form**

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Program Title AS-Life Sciences Date review submitted: November 29, 2016

Type of Program:

BS: ❑ BA: 🗷 AAS: ❑AST: ❑AAS-T: ❑ATA: ❑Certificate: ❑Award of Completion

Person Presenting Program: Emma Norman

🗷Yes ❑ No Should this program remain active? If no, attach program deactivation form.

Note: You do not need to complete the remainder of this form if you are deactivating the program.

**Which sites offer this entire program? Check all that apply:**

🗷 Lummi ❑ Muckleshoot ❑ Nisqually ❑ Nez Perce ❑ Port Gamble/S’Klallam ❑ Swinomish

❑ Tulalip ❑ Independent Learning

**Core courses in this program have been offered using the following modalities within the past year:**

Check all that apply.

Face-to-Face locations: 🗷 LU ❑ MS ❑ NI ❑ NP ❑ PG ❑ SW ❑ TU

❑ Individualized Learning (IL or LC) ❑ Online ❑ ITV Telecourse ❑ Hybrid

❑ Other, describe \_\_\_\_\_\_\_\_\_\_\_\_ ❑ Not taught at all

If program has not been offered during the past year, attach explanation of why it should remain active.

**Program Outcomes and Assessment Information**

❑ Does the program have a current set of Curriculum Committee approved program outcomes? **Yes. See below.**

❑ Do the program outcomes need to be revised? If so, prepare a revised set of program outcomes and contact the chair of the Curriculum Committee about the intent to update the program outcomes. **Yes, but this needs to be done in consultation with the results of the community needs survey.**

❑ Does the program have current program outcomes rubrics? If not, they will need to be developed. **No.**

❑ Does the program have a current curriculum map that clearly indicates the alignment of program and institutional outcomes? If not, it will need to be developed. **No.**

**Next Steps and the Future of the Program**

1. Respond to each point raised in the program prioritization recommendations for this program.

Strengths

1. C2: There is adequate data to assess the demand for the program; surveys were utilized to gage the interest level.
2. C9: Alignment of Core 2,3 and 4 align with the program. Supports and builds/reinforces life skills. Challenges are specific to the program and alludes to looking at those challenges

Suggestions for Improvement

1. C5: Data regarding the learning outcomes was unavailable for review.
2. C9: After reviewing criterion 9, the committee recommends that a larger discussion and more action steps to discuss the future of the program, reassessing the demand from the community would be an important step and looking at the program as a pathway to other programs.
3. Update criterion 10 of the program prioritization for this program. The program prioritization documents can be found on the G drive in the Program Prioritization folder.

After review of the program (both in response to the program review and in response to the 2016 community needs survey), we suggest that the program should stay in place and continue to undergo review for improvements.

PROGRAM OUTCOMES

BODIES OF KNOWLEDGE
STUDENTS WILL BE ABLE TO:

• Demonstrate knowledge of scientific methods and concepts; including collecting scientific data, formulating hypotheses, using experiments to test hypotheses; drawing conclusions, and reporting results.

• Demonstrate foundational knowledge of chemistry.

• Demonstrate foundational knowledge of biology.

• Demonstrate knowledge of local ecosystems, and the importance of local plants and animals for traditional Indigenous uses.

• Articulate Indigenous ways of knowing the natural world.

• Articulate the importance of ethics and values in the practice of science, including Native American cultural values.

COMMUNICATION SKILLS

STUDENTS WILL BE ABLE TO:

• Communicate scientific concepts orally and in writing, using scientific terminology.

• Present scientific data with written reports, tables and figures, and oral presentations.

TECHNICAL SKILLS STUDENTS WILL BE ABLE TO:

• Perform biological laboratory techniques.

• Utilize library, Internet, and other resources to research scientific topics.

QUANTITATIVE SKILLS
STUDENTS WILL BE ABLE TO:

• Collect, organize, and interpret data.

• Calculate answers to problems using algebra and calculus.

• Apply methods of mathematics to analyze, understand, and explore life sciences problems.

READING SKILLS
STUDENTS WILL BE ABLE TO:

• Demonstrate comprehension of literature in the life sciences.

• Extend knowledge of scientific concepts and vocabulary through readings in the life sciences.

**The area below is for Curriculum Committee use only.**

Summary of Curriculum Committee deliberations:

Recommendations:

Curriculum Committee action taken:

❑ Approved ❑ Returned to presenter for corrections

Approval of Program Review:

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Curriculum Committee Chair signature Date

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Dean of Academics and Distance Learning signature Date:

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Vice President of Instruction and Student Services signature Date: