

PROGRAMS OF STUDY

ASSOCIATE OF SCIENCE TRANSFER DEGREE IN LIFE SCIENCES

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.