**LBHC Associate of Science Degree in Science - Natural Sciences** (includes natural resources/environmental sciences, tribal natural resources/environmental science, and biology options)

Program Learning Outcomes Curriculum Map and Plan[[1]](#footnote-0)

Updated 05.08.2024

| Program learning outcomes: *Graduates should be able to…* | MA 216 | SC 160/161 | SC 170/171 | SC 143 | SC 242/243 | SC 236 | 3 SC/AG credits | SC 132/133 | CS 140 | SC 244 | SC141/142 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Knowledge: Apply environmental and biological science terminology that are a foundation for understanding of the process found in the biological world.
 | R | I | I | R | A[[2]](#footnote-1)(2023-24) | R | R | R | R | R | I |
| 1. Critical analysis: Analyze and formulate possible solutions to complex problems associated with environmental/biological studies and research.
 | R | I | R |  R | R | A[[3]](#footnote-2)(2023-24) | R | I | R | R | I |
| 1. Communication: Access and communicate knowledge to and from the many audiences required by a practitioner in the field of environmental and biological sciences
 | R | I | R | R | R | A[[4]](#footnote-3)(2024-25) | R | I | R | R | I |
| 1. Technical skills: Gather and analyze information in environmental and biological sciences (including project design, sampling, measurement, statistical and graphical analysis and other computational skills).
 | R | I | R | R | A[[5]](#footnote-4)(2023-24) | R | R | R | R | R | I |
| 1. Human and cultural perspectives: Apply social, economic, political and legal aspects of biological studies both on and off traditional Crow land.
 | R | R | R | R | R | A[[6]](#footnote-5)(2026-27) | R | I | I | R | R |

1. Only courses that are a part of the main program of study requirements should be listed on the first row. Courses that are not required for only this program are excluded from the list of courses (e.g., exclude general education core requirements). I, R, and A indicate the main program of study requirements – courses in which each program learning outcome is introduced (I), reinforced (R), and formally assessed (A). There should only be one formal assessment (A) in each row and the year of assessment should be noted. Not every cell in every row needs to be filled in; however, each listed course should have at least one letter – either an I, R, or A in its column. This document was created and reviewed by Sara, Neva, and Amber. [↑](#footnote-ref-0)
2. Program learning outcome 1 is assessed in SC 242/243 (natural resource ecology) in terminology quizzes and tests. [↑](#footnote-ref-1)
3. Program learning outcome 2 is assessed in SC 236 (Current topics in Biology) in the final project. [↑](#footnote-ref-2)
4. Program learning outcome 3 is assessed in SC 236 (Current topics in Biology) in semester response papers. [↑](#footnote-ref-3)
5. Program learning outcome 4 is assessed in SC 242/243 (natural resource ecology) in the final research project/lab. [↑](#footnote-ref-4)
6. Program learning outcome 5 is assessed in SC 236 (Current topics in Biology) in the research design module. [↑](#footnote-ref-5)