**LBHC Associate of Science Degree in Science – Environmental Health Option**

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

Updated 07.02.2024

| Program learning outcomes: *Graduates should be able to…* | MA  216 | SC 160/161 | PY  101 | SC 210/215 | SC  242/243 | SC  236 | 3 SC/AG credits | SC 211/216 | SC 250/251 | SC 143/144 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Knowledge: Apply environmental and biological science terminology that are a foundation for understanding of the process found in environmental sciences and human health. | R | I | I | R | A[[2]](#footnote-2) (2024-25) | R | R | R | R | R |
| 1. Critical analysis: Analyze and formulate possible solutions to complex health issues influenced by environmental practices and policies. | R | I | I | R | R | A[[3]](#footnote-3) (2023-24) | R | I | R | R |
| 1. Communication: Access and communicate knowledge to and from the many audiences required by a practitioner in the fields of environmental science and human health sciences. | R | I | I | R | R | R | R | A[[4]](#footnote-4) (2024-25) | R | R |
| 1. Technical skills: Gather and analyze information in environmental sciences and human health sciences (including project design, sampling, measurement, statistical and graphical analysis, and other computational skills). | R | I | I | R | A[[5]](#footnote-5) (2023-24) | R | R | R | R | R |
| 1. Human and cultural perspectives: Apply social, economic, political, and legal aspects of biological studies both on and off traditional Crow land | R | R | I | R | R | A[[6]](#footnote-6) (2026-27) | R | I | I | 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. [↑](#footnote-ref-1)
2. Program learning outcome 1 is assessed in SC 242/243 (natural resource ecology) in terminology quizzes and tests. [↑](#footnote-ref-2)
3. Program learning outcome 2 is assessed in SC 236 (current topics in biology) in the final project. [↑](#footnote-ref-3)
4. Program learning outcome 3 is assessed in SC 211/216 (A&P II/lab) in course projects. [↑](#footnote-ref-4)
5. Program learning outcome 4 is assessed in SC 242/243 (natural resource ecology) in the final research project/lab. [↑](#footnote-ref-5)
6. Program learning outcome 5 is assessed in SC 236 (current topics in biology) in the research design module. [↑](#footnote-ref-6)