

Note: Each cell in the table below will expand as needed to accommodate your responses.

| # | <p>Program Learning Outcomes</p> <p>What do the program faculty expect all students to know, or be able to do, as a result of completing this program?</p> <p>Note: These should be measurable, and manageable in number (typically 4-6 are sufficient).</p> | <p>Assessment Mapping</p> | <p>Assessment Methods</p> <p>What specific artifacts of student learning will be analyzed? How, and by whom, will they be analyzed?</p> <p>Note: the majority should provide direct, rather than indirect, evidence of achievement.</p> <p>Please note if a rubric is used and, if so, include it as an appendix to this plan.</p> | <p>Use of Assessment Data</p> <p>How and when will analyzed data be used by faculty to make changes in pedagogy, curriculum design, and/or assessment work?</p> <p>How and when will the program evaluate the impact of assessment informed changes made in previous years?</p> |
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| 1 | <p>Students will be able to effectively apply core biological concepts to solve problems</p> | <p>BIOL 1245 & 1265 (freshmen)</p> <p>BIOL 3020 & 3040 (sophomores)</p> <p>BIOL 3010 (juniors & seniors)</p> <p>BIOL 4070 (seniors)</p> <p>BIOL 4480 (seniors)</p> <p>BIOL 4960; 4970 4980 (seniors)</p> | <p>Lab reports</p> <p>Embedded exam questions</p> <p>pre-test</p> <p>post-test exams</p> <p>Quizzes and assignments</p> <p>Exam questions; written report</p> <p>Written paper</p> <p>Lab notebooks; research posters</p> <p>-All of the above will be scored by the instructor AND at least 2 members of the Program level assessment committee</p> | <p>Each fall the Program level assessment committee will report findings to the faculty. The committee will lead a discussion about how the data can inform changes to the program to improve student learning of the outcome. After a change has been made, we will assess the impact on student learning in the next academic year.</p> |
| 2 | <p>Students will be able to critically</p> | <p>BIOL 1245 & 1265 (freshmen)</p> | <p>Lab reports</p> | <p>Each fall the Program level assessment</p> |

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| | evaluate scientific information from multiple sources, including that from the primary literature | BIOL 3010 (juniors & seniors) BIOL 3030 (juniors & seniors) BIOL 4070 (seniors) BIOL 4360 (juniors & seniors) BIOL 4480 (seniors) BIOL 4960 4970 4980 (seniors) | Class assignments Class assignments Class assignments Written assignments Written paper Lab notebooks; research posters -All of the above will be scored by the instructor AND at least 2 members of the Program level assessment committee | committee will report findings to the faculty. The committee will lead a discussion about how the data can inform changes to the program to improve student learning of the outcome. After a change has been made, we will assess the impact on student learning in the next academic year. |
| 3 | Students will be able to apply biological principles to global societal issues | BIOL 1245 & 1265 (freshman) BIOL 3010 (juniors & seniors) BIOL 4480 (seniors) | Lab reports Class assignments & discussions Written paper -All of the above will be scored by the instructor AND at least 2 members of the Program level assessment committee | Each fall the Program level assessment committee will report findings to the faculty. The committee will lead a discussion about how the data can inform changes to the program to improve student learning of the outcome. After a change has been made, we will assess the impact on student learning in the next academic year. |
| 4 | Students will be able to draw valid conclusions from quantitative data | BIOL 3040 (sophomores) | On-line homework assignments -Scored by 2 instructors and 2 members of the Program assessment committee | Each fall the Program level assessment committee will report findings to the faculty. The committee will lead a discussion about how the data can inform changes to the program to improve student learning of the outcome. After a change has been made, we will assess the impact on student learning in the next academic year. |

The Program level assessment committee is comprised of 6 faculty members. The outcomes the committee developed were discussed at meetings and the faculty unanimously approved the

3. On what schedule/cycle will faculty review and, if needed, modify this assessment plan?

Each semester the program level assessment committee will meet monthly to discuss how the plan is working. Each year the committee reports to the faculty and can recommend changes to the plan.

IMPORTANT Please remember to submit any assessment rubrics (noted above) along with this report.