Last Rev. 08/08/2023 **Program Name: Biology, B.S./B.A.** **Department: Biology**

Domain	Program-Level Student Learning Outcome (From ALC or ALP)	Year 1 2024-2025	Year 2 2025-2026	Year 3 2026-2027	Year 4 2027-2028	Year 5 2028-2029
Content	Identify and use the concepts, principles, and theories that constitute the core of the biological sciences	**s**	**Follow-Up Assessment - Data Collection:** Assess exam data that reinforce content knowledge from exams from core required upper level courses that reinforce content knowledge to assess improvement from year 1.	**Improvement Plan:** Develop improvement plan based on follow-up data assessment or develop new data collection goals to change direction and vision of program assessment.	**Data Collection:** Gather baseline data in courses that introduce content knowledge from exams and baseline data from core required upper level courses that reinforce content knowledge.	**Improvement Plan:** Implement improvement plan and interventions.
Critical Thinking	Apply scientific method to solve problems in the biological sciences	**Improvement Plan**: Implement improvement plan and interventions.	**Follow-Up Assessment - Data Collection**: Ffollow up from same lab courses that assess experimental knowledge using exams or quizzes.	**Improvement Plan**: Develop improvement plan based on follow-up data assessment or develop new data collection goals to change direction and vision of program	**Data Collection:** Gather baseline data in courses that introduce content knowledge from exams and baseline data from core required upper level courses that reinforce	**Improvement Plan**: Implement improvement plan and interventions.
Communication	Use language in oral and written form effectively and professionally	**Data Collection:** Gather baseline data from courses that require paper report or presentation. Use rubric to assess baseline performance.	**Improvement Plan:** Implement communication improvement plan and interventions (workshops, recitations, HIPs).	**Follow-Up Assessment - Data Collection:** Assess communication performance using rubric from courses that require paper report or presentation.	**Improvement Plan:** Implement communication improvement plan and interventions (workshops, recitations, HIPs).	**Data Collection:** Gather baseline data from courses that require paper report or presentation. Use rubric to assess baseline performance.
Integrity / Values	Describe ethical challenges involved in conducting scientific research with animals	**Data Collection:** Gather baseline data from courses that incorporate ethical considerations in the biological sciences	**Improvement Plan:** Implement improved ethics plan and interventions.	**Follow-Up Assessment - Data Collection:** Follow up assessment from courses that were used to gather baseline data in year 1.	**Improvement Plan:** Implement improved ethics plan and interventions.	**Data Collection:** Gather baseline data from courses that incorporate ethical considerations in the biological sciences

Assessment Activity (Examples)
Gather baseline data
(Revise rubric; gather data)
Implement actions for improvement
Follow-up assessment (impact data)

Methods of Assessment

Direct Measures:	**Indirect Measures:**	**External Direct Measures:**
Exam questions	Focus group	Supervisor/Employer feedback
Student paper (rubric)	Exit interview	External Professional Exam
Presentation (rubric)	Alumni survey	

Approved April 2024