| Date: 07/23 | Program Name: MS Environmental Science - The | is CIP Code: 03.0104 | | | | Department: ENV |
|--------------------|--|--|--|--|--|--|
| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |
| Domain | Program-Level Student Learning Outcome (From ALC or ALP) | 2024-2025 | 2025-2026 | 2026-2027 | 2027-2028 | 2028-2029 |
| Content | Summarize and describe how human activities affect, and are affected by, interactions with the atmosphere, hydrosphere, geosphere, and/or biosphere. | | 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. Department faculty reflect on findings and decide on improvement plan. | improved introductory interventions (workshops, recitations, HIPs, course modifications). Follow-Up Assessment - Data Collection: Assess data that reinforce content knowledge from core | | |
| Communication | Demonstrate proficiency in professional presentation and writing skills, including use of professional editorial style and organization. | | | Data Collection: Gather baseline data from courses that assess experimental knowledge using assignments. Department faculty reflect on findings and decide on improvement plan. | Improvement Plan: Implement improvement plan and interventions. Follow-Up Assessment - Data Collection: Follow-up assessment from courses that assess experimental knowledge to evaluate impact of improvement plan. | |
| Critical Thinking | Synthesize scientific literature to identify gaps in current scientific knowledge for the preparation of original research or a critical review of a scientific concept. | | | | improvement plan. | Improvement Plan: Implement communication improvement plan and interventions (workshops, recitations, HIPs, course modifications). Follow-Up Assessment - Data Collection: Assess communication performance using rubric from courses that require paper report or presentation. |
| Integrity / Values | Demonstrate general scientific principles of integrity in reports, proposals, and thesis. | Improvement Plan: Modify assessment method. Follow-Up Assessment - Data Collection: Assessment of ethical behavior by students with new method to evaluate both the new method and ethical behavior of students. | | | | Data Collection: Assessment of ethical behavior by students either with 2019-2020 assessment approach or modified approach. Department faculty reflect on findings and decide on improvement plan. |

Assessment Activity (Examples)

Gather baseline data (Revise rubric; gather data) Implement actions for improvement

Implement actions for improvement

Revised 30 July 2019 Follow-up assessment (impact data)

Direct Measures: Exam questions Student paper (rubric) Presentation (rubric) Methods of Assessment Indirect Measures: Focus group Exit interview Alumni survey

External Direct Measures: Supervisor/Employer feedback External Professional Exam