Academic Program Assessment Plan – A.S. Environmental Science

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| **Department** | Math, Science, and Engineering | | | | **Degree/Type** | | **Associates of Science** | **Date Submitted** | | | October 18, 2017 |
| **UNM Essential Learning Goals** | | | | | | | | | | | |
| UNM has established the following essential learning goals for all UNM students: University of New Mexico students will develop the following aptitudes and habits of mind in the course of their general and major study at UNM   * KNOWLEDGE of human cultures and the natural world, gained through study in the sciences and mathematics, social sciences, humanities, histories, languages and the arts. * SKILLS, both intellectual and applied, demonstrated in written and oral communication, inquiry and analysis, critical and creative thinking, quantitative literacy, information literacy, performance, teamwork and problem solving. * RESPONSIBILITY, both personal and social, that will be manifested in civic knowledge and engagement, multicultural knowledge and competence, ethical reasoning and action, and foundations and skills for lifelong learning. | | | | | | | | | | | |
| **Contact Person (name, title, email)** | | Irina Alvestad, Division Chair of Math, Science and Engineering, [irina@unm.edu](mailto:irina@unm.edu) | | | | | Date reviewed by CARC | | October 18, 2017 | | |
| **Assessment Cycle (1-year/2-year/3-year)** | | This is a two-year degree but will be assessed yearly. | | | | | | | | | |
| **Program Goal #1** | | **Students who complete the program should have a basic knowledge of scientific principles, with an emphasis in environmental science, demonstrate beginning critical thinking and communication skills, and have a foundation in math skills.** | | | | | | | | | |
| **Student Learning Outcomes**  **(In each row enter an SLO targeted at this Program Goal)** | | | **Year of cycle in which this outcome will be assessed.** | **UNM Essential Learning Goal (Knowledge, Skills, Responsibility)** | | **Assessment Measure including Direct/ Indirect (Provide a description of the assessment instrument used; include the course AND if it was direct or indirect)** | | | | **Performance Benchmark (State the ‘criteria for success’ or performance target for meeting the SLO, i.e., at least 70% of students will perform with score of 70 or better)** | |
| **Student Learning Outcome** | | | **Year of Cycle** | **UNM Essential Learning Goal** | | **Assessment Measure** | | | | **Performance Benchmark** | |
| Students will solve several types of mathematical application problems. | | | **Yearly** | Skills  Knowledge | | **Course: Math 121: College Algebra**  Direct Assessment: Rubric for assessment of test questions that align with UNM/HED Common SLOs.  The Math Department will submit a report for this course. | | | | Performance Target: At least 75% of the students will perform with a score of 75% or higher | |
| Students will be able to analyze and argue, in writing, for a point of view using opinion, facts and inferences from secondary research and apply bibliographic citation style(s). | | | Yearly | Knowledge  Skills | | **Course: English 120: Composition III**  Direct measurement: Student final paper assignment will be panel assessed, using a rubric, for the UNM/HED Common SLOs. The Communications Department will submit a report for this course. | | | | Performance Target: At least 75% of the students will Meet Expectations for each SLO. | |
| Students will demonstrate knowledge, skills and disposition for responsibility regarding principles, theories and methods of scientific inquiry associated with  physical and natural sciences. | | | **Yearly** | Knowledge  Skills  Responsibility | | **Course: ENVS 101: The Blue Planet**  Direct assessment: Students will take a final exam in which key exam questions will be assessed for demonstrated understanding of the knowledge and skills identified in the UNM/HED Common SLOs for this course. | | | | Performance Target: At least 75% of the students will Meet Expectations for each SLO. | |
| Demonstrated ability to solve a problem in chemistry scientifically using the appropriate skills and equipment while employing ethical critical thinking skills. | | | Yearly | K, S, & R | | Course: **CHEM 121 & 123L: General Chemistry I and Lab**  Direct Assessment:  Specific questions on the final exam and on final lab assignment will be selected that measure key institutional designed SLOs. Faculty members will submit a summary and detailed report for each of these SLOs. | | | | Performance Target: 75% of students will perform with a score 75% or better. | |