Academic Program Assessment Plan – AS Computer Science

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Division/**  **Department** | Math, Science, and Pre-Engineering/  Dept of CS | | | | **Degree/Type** | | **AS** | | **Date Submitted** | | April 7, 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 Head of Math, Science, and Pre-Engineering [irina@unm.edu](mailto:irina@unm.edu) | | | | | | Date reviewed by CARC | | April 10, 2017 | | |
| **Assessment Cycle (1-year/2-year/3-year)** | | 2 year program—assessed yearly | | | | | | | | | | |
| **Program Goal #1** | | **Graduates have a broad understanding of computer science principles and concepts as well as an introduction to critical thinking and writing skills in preparation for transfer.** | | | | | | | | | | |
| **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 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). | | | Year 1 Course  (offered every semester) | Knowledge  Skills  Responsibility | | **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 prepare spreadsheets using appropriate software | | | Year 1 course  (offered every semester) | Knowledge  skills | | Course: **CS 150L: Computing for Business Students**  Direct Assessment:  (1) Specific questions on the Final Exam  NM Business Articulation Committee SLOs will be measured with these practice sets and final exam.  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. |
| Students will learn to create and analyze simple algorithms using computer science mathematical concepts. | | | Year 2 course  (offered yearly) | Skills  Knowledge | | Course: **CS 261: Mathematical Foundations of Computer Science**  Direct Assessment:  Specific questions on the Final Exam will be used to assess UNM CS Department SLOs.  Faculty members will submit a summary and detailed report for each of these measures. | | | | | | Performance Target: At least 70% of the students will perform with a score of 70 or higher. |
| Students will demonstrate methods of underlying modern program development | | | Year 2 course  (offered yearly) | Skills | | Course: **CS 251L: Intermediate Programming**  Direct Assessment:  Specific questions on the Final Exam will be used to assess UNM CS Department SLOs.  Faculty members will submit a summary and detailed report for each of these measures. | | | | | | Performance Target: At least 70% of the students will perform with a score of 70 or higher. |