Academic Program Assessment Plan – AS Computer Science

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| **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.
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| **Contact Person (name, title, email)** | Irina Alvestad, Division Head of Math, Science, and Pre-Engineering 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) | KnowledgeSkillsResponsibility | **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) | Knowledgeskills | 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) | SkillsKnowledge | 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. |