Software Development

Date: 9/26/23	Program Name: Software Devlopment, B.S	CIP Code: 11.0101			Department: Comp. Sci.	
		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
Critical Thinking	Employ computing strategies to analyze and solve problems.	**Data Collection:** Gather baseline data in courses that introduce software testing methodologies.	**Improvement Plan:** Develop an improvement plan based upon student performance assessed in assignments or exams.	**Plan Implementation:** Address weaknesses identified in student performance in the curriculum.		
Content	Identify, analyze, and employ computing concepts and methods in the design, implementation, and evaluation of software.		**Data Collection**: Gather baseline data from advanced development courses**.**	**Improvement Plan:** Develop an improvement plan based upon student performance assessed in assignments or exams.	**Plan Implementation:** Address weaknesses identified in student performance in the curriculum.	
Communication	Communicate effectively in a variety of professional contexts.			**Data Collection**: Gather baseline data from Capstone courses**.**	**Improvement Plan:** Develop an improvement plan based upon student performance assessed in assignments or exams.	**Plan Implementation:** Address weaknesses identified in student performance in the curriculum.
Integrity / Values	Recognize professional responsibilities and make informed judgments in computing practice, taking into account legal, ethical, diversity, equity, inclusion, and accessibility principles consistent with the mission of the institution.	**Plan Implementation:** Address weaknesses identified in student performance in the curriculum.			**Data Collection**: Gather baseline data from Capstone courses**.**	**Improvement Plan:** Develop an improvement plan based upon student performance assessed in assignments or exams.
Project Management	Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.	**Improvement Plan:** Develop an improvement plan based upon student performance assessed in reports.	**Plan Implementation:** Address weaknesses identified in student performance in the curriculum.			**Data Collection:** Gather baseline data from Capstone courses.

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

Methods of Assessment

Direct Measures:
Exam questions
Student paper (rubric)
Presentation (rubric)

Indirect Measures:
Focus group
Exit interview
Alumni survey

External Direct Measures:
Supervisor/Employer feedback
External professional exam

Approved April 2024