

Program Outcomes (POs) and Assessment Protocols

PO	Program Outcome	<i>Required</i> courses that address this PO	<i>Required</i> courses that <i>formally</i> assess this PO	Outcome being assessed	Definition of Success / Relevant Rubric(s)	Frequency of assessment	Results evaluated by
PO-A	Demonstrated ability to apply knowledge of computing and mathematics appropriate to the discipline	CSC 101, 110, 115, 105, 260, 381, 295, 300, 520/521, MAT 214A, 220, 247	CSC 260, 280, 295	Homework exercises, analysis and design projects	80% of submissions will achieve a grade ≥ 2 on a 0-3 point scale using the Analysis and Requirements Rubric	260 - all sections every third Fall, base year 2011-2012 280 - all sections every third year, base year 2011-2012 295 - all sections every third year, base year 2011-2012	faculty
PO-B	Demonstrated ability to analyze a problem and to identify and define the computing requirements appropriate to its solution	CSC 101, 110, 115, 105, 260, 381, 295, 300, 520/521	CSC 260, 295, 300, 520/521	Student submission of problem analysis and proposed solutions	80% of submissions will achieve a grade ≥ 2 on a 0-3 point scale using the Analysis and Requirements Rubric	260 - all sections every third Fall, base year 2011-2012 295 - all sections every third year, base year 2011-2012 300 - all sections every third year, base year 2011-2012 520/521 - all projects	faculty, IAB
PO-C	Demonstrated ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	CSC 110, 115, 260, 381, 295, 300, 520/521	CSC 260, 300	Students implement a project from specification through to implementation and verification	80% of projects will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation Rubric	260 - all sections every third Fall, base year 2011-2012	faculty; IAB
PO-D	Demonstrated ability to function effectively on teams to accomplish a common goal	CSC 115, 260, 295, 300	CSC 260, CSC 300	Student participation in a group project	80% of projects will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation and the Analysis and Requirements Rubrics	260 - all sections every Fall year, base year 2011-2012 300 - all sections every third year, base year 2011-2012 (only A&R)	faculty, students

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PO-E	Demonstrated understanding of professional, ethical, legal, security, and social issues and responsibilities	CSC 101, 105, 300	CSC 300	Papers, presentation of research findings and/or position papers	80% of papers / presentations will achieve a grade ≥ 2 on a 0-3 scale using the Writing Rubric and a grade ≥ 2 on a 1-3 scale using the Personal and Societal Responsibilities Rubric	300 - all sections every third year, base year 2011-2012	faculty, IAB
PO-F	Demonstrated ability to communicate effectively with a range of audiences	CSC 115, 105, 260, 295, 300, 520/521	CSC 300, 520/521	Presentation of completed project, research findings	80% of presentations will achieve a grade ≥ 2 on a 0-3 scale using the Presentation Rubric and 80% of writing assignments will achieve a grade ≥ 2 on a 0-3 scale using the Writing Rubric	300 - all sections every third year, base year 2011-2012 520/521 - all projects	faculty, students
PO-G	Demonstrated ability to analyze the local and global impact of computing on individuals, organizations and society	CSC 101, 105, 300	CSC 300	Papers, presentation of research findings and/or position papers	80% of papers / presentations will achieve a grade ≥ 2 on a 0-3 scale using the Writing Rubric and ethics-targeted activities a grade of $2 \geq 1$ on a 1-3 scale using the Personal and Societal Responsibilities Rubric	300 - all sections Spring semester even years	faculty, IAB
PO-H	Recognition of the need for, and an ability to engage in, continuing professional development	CSC 115, 105, 260, 381, 295, 300, 520/521	CSC 520/521	Journal of research activities conducted during the design and implementation of the senior project	80% of submissions will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation Rubric and the Analysis and Requirements Rubric	520/521 - all projects	faculty, students

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PO-I	Demonstrated ability to use current techniques, skills, and tools necessary for computing practice	CSC 110, 115, 105, 260, 381, 295, 300, 520/521	CSC 260, 295	Projects completed using current tools and techniques	80% of projects will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation Rubric	260 - all sections every third Fall, base year 2011-2012s 295 - all sections every third year, base year 2011-2012	faculty, students
PO-J	Demonstrated ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices	CSC 115, 260, 381, 295, 300, 520/521, MAT 214A, 220, 247	CSC 260, 280, 295	Homework exercises, design projects	80% of submissions will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation Rubric and the Analysis and Requirements Rubric	260 - all sections every third Fall, base year 2011-2012 280 - all sections every third year, base year 2011-2012 295 - all sections every third year, base year 2011-2012	faculty, IAB
PO-K	Demonstrated ability to apply design and development principles in the construction of software systems of varying complexity	CSC 115, 260, 300, 520/521	CSC 260, 300, 520/521	Student submission of problem analysis, proposed solutions, and design and workflow proposals	80% of submissions will achieve a grade ≥ 2 on a 0-3 point scale using the Project Implementation Rubric and the Analysis and Requirements Rubric	260 - all sections every third Fall, base year 2011-2012 300 - all sections every third year, base year 2011-2012 (A&R only) 520/521 - all projects	faculty, IAB