

**Implementation of Objectives (ABET Self-Study; June 26, 2007)**

<b>Objective</b>	<b>How Measured</b>	<b>When Measured</b>
Effectively express themselves in written and oral form.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Senior exit surveys.</li> <li>• CS480 capstone course (oral presentations and reports measured by the instructor).</li> </ul>	<ul style="list-style-type: none"> <li>• One-year after graduation.</li> <li>• Last semester before graduation.</li> <li>• Each time the course is taught.</li> </ul>
Demonstrate competence in mathematical skills.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Course-based surveys and/or in class tests in CS260, CS372, and other core courses.</li> </ul>	<ul style="list-style-type: none"> <li>• One-year after graduation.</li> <li>• Each time the course is taught.</li> </ul>
Appreciate and apply scientific methods in reasoning and problem solving.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Advisement sessions.</li> </ul>	<ul style="list-style-type: none"> <li>• One year after graduation.</li> <li>• Every semester.</li> </ul>
Work effectively with others.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• One-year after graduation.</li> <li>• Last semester before graduation.</li> </ul>
Do research (locate and make effective use of information).	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Senior exit surveys.</li> <li>• CS480, capstone course (research projects and presentations measured by the instructor).</li> </ul>	<ul style="list-style-type: none"> <li>• One-year after graduation.</li> <li>• Last semester before graduation.</li> <li>• Each time the course is taught.</li> </ul>
Use effective leadership skill.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• One year after graduation.</li> <li>• Last semester before graduation.</li> </ul>
Understand, select and apply algorithms and data structures.	<ul style="list-style-type: none"> <li>• Course-based surveys and in class tests in CS 342 and CS 372.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>

Select and apply appropriate programming language.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 382.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Understand programming language concepts.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 382.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Understand theoretical foundations of computer science concepts.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 341, CS342, CS 372, and CS 382</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Be exposed to a variety of programming languages and systems.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 382.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Understand computer organization and architecture	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 280 and CS 341.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Understand problem analysis and solution design principles	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 350.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Develop confidence to learn and apply new concepts.	<ul style="list-style-type: none"> <li>• Alumni surveys.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• One year after graduation.</li> <li>• Last semester before graduation.</li> </ul>
Understand ethical issues for computer science professionals.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 480 and instructor evaluation of students' work.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>
Understand the impact of computing technology in society.	<ul style="list-style-type: none"> <li>• Course-based surveys of CS 480 and instructor evaluation of students' work.</li> <li>• Senior exit surveys.</li> </ul>	<ul style="list-style-type: none"> <li>• Each time the course is taught.</li> <li>• Last semester before graduation.</li> </ul>