

**CS Transfer Program Assessment Plan**  
**CS Assessment Plan for Degrees and Certificates**

<b>Department</b>	<b>Computer Science</b>
<b>Program Outcomes</b> <b>(List the student learning outcomes of each degree and certificate your program offers. Attach another sheet if necessary)</b>	<p><b>A.A or A.S. Degree in Computer Science</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills necessary to succeed in programming intensive majors at 4-year colleges. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate the capacity to use computer software to communicate and interact with computer hardware. <i>Critical Thinking, Communication, Professional Development</i></li> <li>3. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>4. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol> <p><b>C++ Programming Certificate of Achievement</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills implemented in the C++ programming language. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol> <p><b>Java Programming Certificate of Achievement</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills implemented in the Java programming language.</li> </ol>

	<p><i>Critical Thinking, Professional Development</i></p> <ol style="list-style-type: none"> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol> <p><b>Programming Certificate of Achievement</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills implemented in the C++ or Java programming language. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol> <p><b>Web Programming Certificate of Achievement</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills implementing the following programming and Internet scripting language: Java, Perl, JavaScript, and PHP. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol>
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	<p><b>Game Programming in Java Skills Certificate</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software game development skills implemented in the Java programming language. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol> <p><b>Web Programming Fundamentals Skills Certificate</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate software development skills implementing the following programming and Internet scripting language: Java, Perl, Flash, JavaScript, and PHP. <i>Critical Thinking, Professional Development</i></li> <li>2. Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></li> <li>3. Demonstrate professional conduct by meeting strict project deadlines, participating in self-managed teams, and adopting classroom behavioral norms. <i>Communication, Professional Development</i></li> </ol>
<p><b>Assessment of Program SLOs</b></p> <p><b>Describe the Assessment Process your program will use to evaluate the outcomes. Include the assessment tool used and the rubric or criteria used to evaluate success</b></p>	<p>The CS program SLOs will be assessed through an assessment process that is embedded in the different courses. We will select certain assignments as assessment tools for a specific program SLOs.</p> <p>EXAMPLE 1:  <b>SLO #3 from A.A or A.S. Degree in Computer Science</b>      Demonstrate information literacy individually, and as a team member (proper citations, documentation, ethical practices). <i>Critical Thinking, Communication, Professional Development, Global Awareness</i></p> <p>Final programming assignment</p>

	<p>Whether this is an instructor-created assignment or one of the students' choosing, the accompanying report and documentation files demonstrate the use of proper citations, documentation, and ethical practices.</p> <p><b>EXAMPLE 2:</b>  <b>SLO #1 from A.A or A.S. Degree in Computer Science</b>      Demonstrate software development skills necessary to succeed in programming intensive majors at 4-year colleges. <i>Critical Thinking, Professional Development</i></p> <p>Final exam lab practical</p> <p>Students are provided starter code and are asked in a three hour period to produce a running program. Students are allowed to use a 3"x5" handwritten notecard as a resource along with appropriate online code libraries as appropriate.</p>
<p><b>Assessment Evaluation</b></p> <p><b>Describe the process the department uses to evaluate assessment results. Include:</b></p> <p><b>What meetings will be held?</b></p> <p><b>When?</b></p> <p><b>Who will be involved?</b></p> <p><b>What will be discussed</b></p> <p><b>How will you record the results?</b></p>	<p>The assessments of student learner outcomes for the degrees and certificates will be evaluated in regular department meetings during flex week and throughout the semester. Specific courses and assignments will be selected each semester to assess the SLOs.</p> <p>Meetings will be held during flex week before the beginning of the semester. During the flex week meetings, we will form assessment teams that consist of one full-time faculty member lead and several part-time and full-time faculty members. Each team will be responsible for assessing SLOs, creating, sharing and evaluating rubrics, and discussing assessment results for specific courses.</p> <p>We will use the occupational program assessment analysis forms and keep detailed meeting minutes to record the results.</p> <p>Since not all of our courses are taught every semester, we will need to distribute the SLO assessments over several semesters depending on when our courses are being taught.</p> <p><b>Proposed program/course SLO assessment schedule:</b></p> <p><b>Spring 2010 ( Year 1)</b></p> <p>Present Instructional Plan to CIP      Implement Assessment Plan      SLOs for CS1L, CS12J, CS 23/MATH 23</p> <p><b>Fall 2010</b></p>

	<p>SLOs for CS1, CS11, CS 24</p> <p><b>Spring 2011 (Year 2)</b></p> <p>SLOs for CS1L, CS 21, CS 20J</p> <p><b>Summer 2011</b></p> <p>SLOs for CIS 131</p> <p><b>Fall 2011</b></p> <p>SLOs for CS 1, CIS 132, CS 19</p> <p>A.A. or A.S. Degree Computer Science: SLOs 1–2</p> <p><b>Spring 2012(Year 3)</b></p> <p>One of Core Four: I Communication</p> <p>SLOs for CS 12GP, CIS 164PH, CS 20J</p> <p>Certificate of Achievement Web SLOs</p> <p>Skills Certificate Web Fundamentals: SLOs</p> <p><b>Fall 2012</b></p> <p>Two of Core Four: II Critical Thinking and Information Competency</p> <p>A.A. or A.S. Degree Computer Science: SLOs 3–4</p> <p>Certificate of Achievement C++: SLOs</p> <p><b>Spring 2013(Year 4)</b></p> <p>Three of Core Four: III Global Awareness</p> <p>Certificate of Achievement Java: SLOs</p> <p>Certificate of Achievement Programming: SLOs</p> <p><b>Fall 2013</b></p> <p>Four of Core Four: IV Personal Responsibility and Professional Development</p> <p>Skills Certificate Game Programming: SLOs</p> <p><b>Spring 2014(Year 5)</b></p> <p>Begin writing Plan/review all curriculum</p> <p><b>Fall 2014</b></p> <p>Finish writing Plan/submit all curriculum</p> <p><b>Spring 2015 (Year 6...really Year 1)</b></p> <p>Present Instructional Plan to CIP</p> <p>Implement Assessment Plan</p>
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