



Assessment Plan for Workforce and FOS Programs

Program/Track Name: AAS – Web Development

Description of Program-Level Learning Outcomes

Please indicate the Program Learning Outcomes for the degree, degree track, or certificate below:

Program-Level Learning Outcomes	
Program Learning Outcome 1:	Design and create responsive front-end websites using current languages, techniques, and tools.
Program Learning Outcome 2:	Demonstrate an understanding of back end (server-side) development/updates for websites and web applications. Concepts include server-side generated web sites or web applications, and database connectivity using current languages, techniques, and tools.
Program Learning Outcome 3:	Apply industry required skills such as code validation, usability testing, interpersonal communication, and project time management
Program Learning Outcome 4:	Demonstrate an understanding of the fundamental concepts of programming that are write computer programs for web applications.

Section I: Technical Courses

For **all technical courses** in the program, indicate in the table on the following page whether and/or how the course will support the program learning outcomes. You should include courses outside your discipline area and work collaboratively with those disciplines to determine whether and/or how those course(s) will support the program learning outcomes. **Please note** that it is understandable if courses from outside the discipline do not assess the program-level learning outcomes and serve only to introduce, practice and/or emphasize the program outcomes. It is also possible that technical courses outside of your discipline may not directly support the specific program-level learning outcomes you have identified.

How to complete the program map:

For each technical course in your program, please indicate whether any program-level learning outcome is introduced to students (I), practiced by students (P), emphasized for students (E), or formally assessed (A).

For example, if course WXYZ 1234 introduces students to one of the program outcomes, then enter “I” for that specific program outcome in the appropriate column. Please note that a course can be “I”, “P”, “E” and/or “A” in any program outcome. The labels in the following table apply SOLELY to the program level learning outcomes defined above. (It is NOT necessary for every course to address a program level learning outcome, and it is NOT necessary that Assessment or program level learning outcomes occur in every course.)

Program Map ▼

I=Introduced P=Practiced E=Emphasized A=Assessed

Program Courses	Program Learning Outcome 1	Program Learning Outcome 2	Program Learning Outcome 3	Program Learning Outcome 4
COSC 1436 - Programming Fundamentals I				I, P, E
ITSE 1311 - Beginning Web Programming	I, P, E		I, P	
ITSE 1346 - Database Theory and Design		I, P		
COSC 1437 - Programming Fundamentals II				I, P, E
ITSE 2302 - Intermediate Web Programming	P		P	I, P, E, A
ITSE 2313 - Web Authoring	P, E			
IMED 1341 - Interface Design	P, E, A			
ITSE 2371 - Front-End Web Frameworks	P, E		P	P
ITSE 2309 - Database Programming - SQL		P, E		
COSC 2436 - Programming Fundamentals III				P, E
INEW 2334 - Advanced Web Programming	P	P, E, A	P	P
ITSE 2374 - Web Application Development (Capstone)	P, E	P, E	P, E, A	P

* Course provides foundational skills that may be applied in the program courses

Assessment Plan for Program Learning Outcomes

Review existing assessment methods and current practices for collecting/gathering student data to identify direct (and possibly indirect methods of assessment). Remember that the data will need to be gathered, analyzed, and used to support the program’s continuous improvement processes.

Note: Because courses from other disciplines already have assessment plans in place, they do not have to be included in this assessment plan.

Nonetheless, proposers must work collaboratively with these other disciplines to stay current and up-to-date with the assessment plans in these courses.

<p>Program-Level Learning Outcome (e.g. Students will describe the impact of various cultures on American cuisine.)</p>	<p>Assessment Measure(s) and Where Implemented in Curriculum – Description of Instrument(s)/ process(es) used to measure results and indication of where the assessment will be collected in curriculum. (e.g. Essay on Cultural influences on American cuisine in CUIS 1300.)</p>	<p>Targets- Level of Success Expected (e.g. 80% of students score 2.5 or better on rubric for essay on cultures and cuisine.)</p>
<p>PLO #1 - Design and create responsive front-end websites using current languages, techniques, and tools.</p>	<p>Final project in IMED 1341 - Interface Design in which students are required to design and create a responsive website. The design, code, and usability of the front-end will be graded using a rubric.</p>	<p>70% of students score 70% or above based on project rubric.</p>
<p>PLO #2 - Demonstrate an understanding of back end (server-side) development/updates for websites and web applications. Concepts include server-side generated web sites or web applications, and database connectivity using current languages, techniques, and tools.</p>	<p>Final Exam in INEW 2334 - Advanced Web Programming that will test students on their knowledge and application of back-end development needed to create and maintain websites and web applications including: server-side coding, dynamic client-server interaction, data storage and retrieval, authentication, security, deployment, and unit testing.</p>	<p>70% of students who attempt the last exam will score 70% or above. <i>Note that all questions on this exam relate to this PLO.</i></p>

<p>PLO #3 - Apply industry required skills such as code validation, usability testing, interpersonal communication, and project time management.</p>	<p>Final Project in ITSE 2374 - Web Application Development (Capstone) in which the student will be required to develop a website or mobile application. Students will be assessed by a grading rubric on the following industry required skills: code validation, the use of effective interpersonal communication skills (written and verbal, and project time management.</p>	<p>70% of students score 70% or above based on project rubric.</p>
<p>PLO #4 – Demonstrate an understanding of the fundamental concepts of programming that are write computer programs for web applications.</p>	<p>First two quizzes in ITSE 2302 - Intermediate Web Programming that will test students on their knowledge of the JavaScript programming skills needed to create a web-based JavaScript application.</p>	<p>70% of students will score 70% or above. <i>Note that all questions on this exam relate to this PLO.</i></p>