

**Outcome Assessment Plan and Results for degrees or certificates**

**Degree or Certificate: Associate of Science Oregon Transfer Computer Science**

1. Outcome	2. Criteria or Target	3. Measurement Tool		4. When/how and by who analysis of assessment will be accomplished	5. Program Assessment Recommendations?
		course	assignment		
Individuals who receive a certificate of completion should be able to:					
Demonstrate the ability for sound reasoning and problem-solving by planning, documenting, implementing, testing, and executing computer solutions to real-life problems.	90% of students will submit a final system specification as part of a development team with evidence of this outcome being met at a C or better.	CS161	CS161 Final Project	CS department faculty will assess submitted projects during program review.	100% students submitted (5/5); 100% submissions C or better (5/5); Overall 100% C or better (5/5)
Apply knowledge of mathematics in the development of computer algorithms and solutions.	90% of students will create an algorithm to solve a common programming problem and provide asymptotic analysis for Best-, Average-, and Worst-case scenarios with evidence of this outcome being met at a C or better.	CS260	CS260 Linear Data Assignment	CS department faculty will assess submitted assignments during program review.	80% students submitted (4/5); 100% submissions C or better (4/4); Overall 80% C or better (4/5)
Discuss key ethical issues and global concerns in relation to the field of computer science, and their responsibility to this field as computer science	90% of students will submit a research paper focused on identifying, discussing, and analyzing current ethical dilemmas in the field of computer science with evidence of this outcome being	CS160	CS160 Midterm Research Paper	CS department faculty will assess submitted midterm during program review.	91% students submitted (10/11); 90% submissions C or better (9/10); Overall 82% C or better (9/11)

professionals of the future.	met at a C or better.				
Research, identify, evaluate, analyze, select, and implement current technologies as appropriate in order to implement effective solutions.	90% of students will submit a final project requiring the student to identify and implement a modern programming framework to solve a common programming problem using web-based programming languages with evidence of this outcome being met at a C or better.	CS162	CS162 Final Project	CS department faculty will assess submitted projects during program review.	67% students submitted (2/3); 100% submissions C or better (2/2); Overall 67% C or better (2/3)

Plan Submitted by: Andrew Burke  
Assessment Completed by: Andrew Burke

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Plans to be submitted to Academic Assessment Coordinator ([kkane@cgcc.edu](mailto:kkane@cgcc.edu)) by Nov 15 of the academic year being assessed.  
Results to be submitted to Academic Assessment Coordinator ([kkane@cgcc.edu](mailto:kkane@cgcc.edu)) by July 1 the following academic year being assessed  
Analysis to be completed as part of the department program review 2019-20.