

Course Assessment - Part A: Your Plan

COMPLETE

#615

Please select your course and name from the drop-down menu. If your course or name are incorrect or missing, contact the Curriculum and Assessment Administrative Assistant, 541-506-6037 or swade@cgcc.edu.

MFG 156- Integrated Manufacturing 1-Chris Dodson-Winter 2023

*** Part A: Your Plan DIRECTIONS 1. Choose three of your course outcomes to assess and report on this term (these will also be used in your Student Course Evaluation survey): Outcome #1**

Fabricate product and tolerance from digital blueprints using SolidEdge 2D.

*** Outcome #2**

Apply a basic understanding of quality control processes and measuring.

*** Outcome #3**

Use fixtures/jigs to accurately reproduce product.

Have you completed an assessment for this course prior to this term?

No

If yes, are you assessing different outcomes?

No

Comments:

(No response)

2. To which degree(s) or certificate(s) does your course map? Degree, Certificate, & Program Outcomes

Advanced Manufacturing Technology

*** Method of Assessment 3. What methods will be used to assess individual student understanding of each of these outcomes? (Please be specific.) Outcome #1: Method to assess student understanding**

Students will model components of increasing difficulty in 2D CAD software to tolerance based off of paper blueprint drawings. They will then assemble fabricated components of each project into a final product according to specifications listed in an assembly blueprint. These model representations will be assessed for accuracy to component blueprints. The final products will be measured and inspected for accuracy to assembly blueprints.

*** Outcome #2: Method to assess student understanding**

Students will measure and inspect components and product representation of each project in CAD. This will be followed up by submitting a quality control document for final products for each project in a random peer review as well as an instructor assessment.

*** Outcome #3: Method to assess student understanding**

Students will design, fabricate and utilize fixtures in order to replicate a matching set of 3 final products to tolerance. These 3 representations will be assessed on repeatability and accuracy to tolerance.

*** 4. How will you know if you were successful in your efforts to teach this outcome? Outcome #1:**

Check final products to tolerance and assess on a rubric.

*** Outcome #2: How will you know if you were successful in your efforts to teach this outcome?**

Check quality control documents and final product and assess on a rubric.

*** Outcome #3: How will you know if you were successful in your efforts to teach this outcome?**

Compare 3 final products and assess accuracy and repeatability on a rubric.

5. Instructor Questions: Create two course specific questions to be included on the Student Course Evaluation. Question #1

What aspects of the course did you find most beneficial to your learning style, and why?

Question #2

What aspects of the course did you find disruptive to your learning experience, and why?

Do you require the names of students who complete the course evaluation survey? (Please note: names will be sent to instructors the Thursday before term ends)

NO

Reminder, when completing Part B, instructors will be asked the following questions: Describe anything you did to assist the institutional effort to support students in improving achievement of the specified criteria for the following Institutional Learning Outcomes (ILO): 1. ILO#1 - Communication - "Content Development" and/or "Control of Syntax and Mechanics" 2. ILO#2 - Critical Thinking/Problem Solving - "Evidence" and/or "identify strategies" 3. ILO#4 - Cultural Awareness - "Curiosity" (Encouraging our students to "Ask deeper questions about other cultures and seek out answers to these questions") 4. ILO#5 - Community and Environmental Responsibility - "Understanding Global Systems" and/or "Applying Knowledge to Contemporary Global Contexts" 5. ILO#3 - Quantitative Literacy - "Application/Analysis" and/or "Assumptions"

(No response)