Course Assessment - Part A: Your Plan

COMPLETE #589

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.

EET 221- Semiconductor Devices and Ciruits- Kalie Brunton- Fall 2022

*** 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**

Identify various types of diodes and transistors, explain their theory of operation, and contrast their applications.

*** Outcome #2**

Apply electrical concepts to analyze circuits containing semiconductor components.

*** Outcome #3**

Build and troubleshoot circuits with diodes and transistors using instrumentation tools to observe circuit characteristics and computer software to model circuits.

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

No

If yes, are you assessing different outcomes?

No

Comments:

This will be my first time teaching this course.

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

Associate of Applied Science: Electro-Mechanical 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**

Written exams that include schematic diagram interpretation as well as verbally posed questions in lab will provide feedback about this outcome.

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

Written exams that include mathematical and graphical analysis of circuits will be used.

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

Assessing this outcome will include lab projects where students will have the opportunity to demonstrate proficiency using instrumentation to analyze and diagnose circuits.

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

Written test scores will be part of the success indicator for this outcome, aiming for a C or better class average. Additionally, the clarity of students' verbal responses and degree of comfort when answering questions about their lab projects will provide feedback.

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

Written test scores of a C or better class average would indicate success regarding this outcome.

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

A ninety percent or higher participation/completion rate of lab projects would signal success for this outcome. Completion of lab projects indicates many hours spent gaining exposure to circuit analysis and a proficiency using lab instrumentation.

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

Do you feel this course helped equip you to interpret schematics and understand how semiconductor components are used in various devices?

Question #2

How confident do you feel in your ability to interpret documentation about various semiconductor components?

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 - "Student Position" and/or "Evaluate Potential Solutions" 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)