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## \* Your Email

[jpytel@cgcc.edu](mailto:jpytel@cgcc.edu)

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EET 112- Electrical Circuit Analysis 2- Jim Pytel- Winter 2024

**\* 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**

Apply electrical concepts to analyze the transient DC response of capacitive and inductive circuits.

## \* Outcome #2

Identify and calculate sinusoidal waveform properties.

## \* Outcome #3

Apply electrical concepts and use phasor equivalents to analyze AC circuits.

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

Yes

**If yes, are you assessing different outcomes?**

Yes

## Comments:

(No response)

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

Associate of Applied Science: Electro-Mechanical Technology, Electro-Mechanical Technology Career Pathway Certificate

**\* 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**

Given a capacitor charging or an inductor storage circuit with known component values and DC input voltages students will calculate charge/storage values and times, build the circuit, and verify predicted output.

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

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Given a function generator, DMM, and oscilloscope a student will establish and measure an AC waveform with desired amplitude and frequency.

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

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Given series, parallel, and series-parallel AC circuits with known component values and input voltages students will calculate charge/storage values and times, build the circuit, and verify predicted output.

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

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Students can predict and measure desired electrical circuit properties for capacitor charging or inductor storage circuits.

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

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Students can use instrumentation to establish an AC waveform with desired amplitude and frequency.

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

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Students can predict and measure desired electrical circuit properties for series, parallel, and series-parallel AC circuits.

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

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(No response)

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**Question #2**

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(No response)

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**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)**

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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 - "Openness" (Encouraging our students to "Initiate and develop interactions with culturally different others") 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"

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