

Knowledge Probe questions for ECE 419

ECE419 Survey

This exit survey will not count as part of your grade in this class, it is being administered in order to determine the current state of your knowledge within the ECE Department curriculum. The results will be used to assess how our curriculum is preparing you, and may factor in future curriculum changes.

Give an encompassing answer to the following questions:

1. While trying to solve an engineering problem, evaluate a process, or gather a new set of experimental data, give a brief description of steps that are required to achieve these goals. (i.e. describe steps in experiment design and data collection)

Probe for outcomes B, J, and K

2. From your previous classes' experience, describe advantages and disadvantages of teamwork

Probe for outcome H

3. Describe typical roles and responsibilities in a multi-disciplinary team. What professional fields are typically represented

Probe for outcome H

4. Based on the all previous classes you have taken at UNM, describe what you learned about the engineering tools are currently available to engineers? (this includes software, hardware, etc)

Probe for outcome K

Results:

√ Entrance Probe:

√ 100% of students understand multi-disciplinary nature of engineering

√ ≥90% students understand benefits of the teamwork

√ ≥90% students could name engineering team members and their roles, >70% could name non-engineering team members and their roles

√ ≥90% students have an understanding of tools and applications available to modern engineer