Outcome (e) Rubrics

**Ability to Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches.**

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| **Representative Student's Name** | **ID #** | **Term (e.g., T112)** | **Lab or Course #** |  | ***Evaluator's Input*** |
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| **Outcome** | **Score (1 - 4)** | **Exemplary (4)** | **Proficient (3)** | **Apprentice (2)** | **Novice (1)** |
| **Applying concepts, governing math or physics equations and algorithms to solve a problem** |  | Applies correct concepts, chooses correct governing equations and optimum algorithms (or methods) to solve a problem. | Applies correct concepts, chooses correct governing equations but use sub-optimum algorithms (or methods) to solve a problem. | Applies some correct concepts and chooses some correct governing equations but makes mistakes | Applies incorrect concepts and/or chooses incorrect governing equations  can not solve problems |
| **Demonstrating effective open-ended problem solving techniques (including the debugging of a faulty design; hardware, software or both)** |  | Always solves problems using step-by-step logical procedure and obtain correct solution | Mostly solves problems using step-by-step logical procedure. Sometimes he solves problems in an ad-hoc manner, but still he obtains correct solutions | Mostly solves problems using step-by-step logical procedure but some times makes minor procedural errors that lead to incorrect solution of the problem | Solves problems without logical step-by-step logical procedure and makes procedural errors resulting in incorrect solution |