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| **Program/Discipline Learning Outcomes** |
| **Academic Year: 2017 - 2018** |
| **Program/Discipline: (indicate program/discipline here)**Certificate in Fundamentals of Engineering |
| **PROGRAM/DISCIPLINE CONTACT** |
| **FACULTY: Greg Severance** | **OFFICE: JM 250** |
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| **Learning Outcome:****(Successful students will be able to)** | **Course(s) in which the assessment will be performed** | **Semesters the outcome will be assessed** | **Assessment tools used for learning outcome** |
| 1 | Apply appropriate quantitative tools effectively and use logical modes of thinking to analyze and synthesize information in problem solving situations. | MAT 254 | Fall or Winter | Course Project or Final Exam |
| 2 | Develop and apply simple mathematical models to real world problems  | MAT 254 or PHY 252 | Fall or Winter | Course Project orFinal Exam |
| 3 | Identify, interpret, and formulate hypotheses and communicate the outcomes of experiments. | CEM 141 or PHY 252 | Fall or Winter | Course Project orFinal Exam |