|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Program/Discipline Learning Outcomes** | | | | |
| **Academic Year: 2017- 2018** | | | | |
| **Program/Discipline: Associate of Science (SCIE.AS)** | | | | |
| **PROGRAM/DISCIPLINE CONTACT** | | | | |
| **FACULTY: Pat Visser** | | | **OFFICE: JM 234A** | |
| **EMAIL:** [VisserPatriciL@jccmi.edu](mailto:VisserPatriciL@jccmi.edu) | | | **PHONE: 517-796-8533** | |
| **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 | *Identify, understand, and formulate scientific hypotheses.* | CEM 141  PHY 251 | Fall | Lab reports |
| 2 | *Recognize, generate, and record empirical data.* | CEM 141  PHY 251 | Fall | Lab reports |
| 3 | *Communicate the outcomes of experiments.* | CEM 141,  PHY 251 | Fall | Lab reports |
| 4 | *Understand and discuss scientific theories* | CEM 141  PHY 251  BIO 161, 253 | Fall ( & Winter – BIO 161) | Lab reports and exams |
| 5 | *Contextually understand and evaluate societal issues pertaining to natural science.* | BIO 161, 220 | Fall & Winter | Assignments and quizzes |