Course Outcomes Guide (COG)

Course Title: MAT 206 – Differential Equations  Date: September 2014

Course Team: Jennifer Szczesniak

Expected Learning Outcomes

Students will use several methods:

1. To solve linear differential equations.
2. To solve given types of non-linear differential equations.
3. To use Laplace transformations to solve differential equations.
4. To use differential equations to solve application problems.
5. To classify a given equation and determine a method to use to solve that equation.
6. To work effectively in groups.
7. To use technology, in the form of a computer algebra package, the graphing calculator and other programs, to assist in the problem-solving process.
8. To effectively communicate results and the thought process that led to those results.

Assessment (How do or will students demonstrate achievement of each outcome? Please attach a copy of your assessment electronically.)

- There are several common questions that are included on the final exams for each section.

Validation (What methods have you used or will you use to validate your assessment?)

- I am not sure how to validate the assessment tools.

Results (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)

- We have only completed one assessment cycle for this class. Since the course only has about 10 students per year, we were doing a two-year assessment cycle which has just ended this past spring. The data is currently being analyzed.

Follow-up (How have you used or how will you use the data to improve student learning?)

Budget Justification (What resources are necessary to improve student learning?)
## Course: MAT 206
### SLOA Data

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*% Walk-away Fs = Did not take the final exam and received a grade of F.

### Content Areas