Course SLO of Record*Complete and submit to Division Dean and Office of Instruction*

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| **Course Name and Number**: Math 266 – ORDINARY DIFFERENTIAL EQUATIONS | **Date** October 21, 2013 |
| X Modification of Existing SLOs | ☐New Course  |
| **Lead Faculty approval to write or rewrite** **SLOs:\_\_\_\_\_\_\_\_\_\_\_\_**  |  |

 *Please Initial*

1. **Existing Course SLOs of Record** **to be rewritten (if applicable):**
* Students will demonstrate their ability to solve application problems by utilizing various techniques such as eigenvectors and eigenvalues to solve first order ordinary differential equations, linear differential equations, and systems of differential equations.
* Students will demonstrate their ability to solve constant coefficient linear initial value problems by applying the definition and properties of the Laplace transform to make reasonable conclusions concerning the solutions of real word problems.
1. **Rationale for writing or rewriting SLOs** *(Note: Changes to SLOs should be substantive. It is recommended that only after several semesters of data collection and a full assessment of the Course should SLOs be changed:.*

The new SLO better is a better representation of course content and will provide easier reporting with new form.

1. **New Course SLOs:**
* Students will demonstrate the ability to solve first-order differential equations.
* Students will demonstrate the ability to solve non-homogenous higher order differential equations.
* Students will demonstrate the ability to model real world problems using differential equations.
* Student will demonstrate the ability to solve differential equations using Laplace transforms.

**Course SLOs of Record**

**Course Name and Number**: Math 266 – ORDINARY DIFFERENTIAL EQUATIONS

**Effective Date of SLOs:** FALL 2013 *(Semester and Year)*

**List all currently adopted Course SLOs of Record (include all SLOs for course):**

**Date SLOs adopted by Department:** October 11, 2013 – Mathematics Department SLOberfest*(attach evidence of adoption, meeting minute,; e-mail string)***List of faculty who participated in development of these SLOs:**

Dr. Jeremiah Gilbert, Dr. Stephanie Briggs, Dr. Vicente Alvarez, Dr. Victoria Anemelu, Kristin Dillard, Dr. Zadock Reid, Lori Blecka, Dr. Teri Strong, Ann Gibbons, Yvonne Beebe, Keith Lee, Dr. Abeir Israeil, Moustafa Kanawati, David Smith, and Michael Mayne.

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**Submitted By**