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

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| --- | --- |
| **Course Name and Number**: Math 251 – SINGLE VARIABLE CALCULUS II | **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 the ability to differentiate and integrate algebraic, trigonometric, transcendental, and implicit functions graphically, algebraically, and numerically utilizing differentiation rules and integration formulas to correctly perform indicated processes.
* Students will demonstrate the ability to recognize and evaluate integrals (proper and improper) using various techniques including integration by parts, trigonometric substitution and manipulation, partial fraction decomposition, reducing formulas, and integration tables to correctly perform indicated processes.
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:**
* Student will demonstrate the ability to calculate the volume of a solid of revolution.
* Student will demonstrate the ability to integrate elementary functions using integration techniques.
* Student will demonstrate the ability to derive Taylor polynomials of analytic functions.
* Student will demonstrate the ability to calculate the (arc length of a polar graph) or the area of a polar graphed region.
* Student will demonstrate the ability to analyze infinite series for convergence/divergence.

**Course SLOs of Record**

**Course Name and Number**: Math 251 – SINGLE VARIABLE CALCULUS II

**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**