

Proposal Date: September 8, 2008

Ogden College of Science and Engineering
Department of Mathematics and Computer Science
Proposal to include a course in General Education
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General Education Course Form

1. Current or proposed catalog description of the course. Significant content changes must be approved by the University Curriculum Committee.

MATH 142: Calculus with Applications for Life Sciences (5 hours)

Prerequisites: Four years of high school mathematics, including Algebra I and II, geometry, and a course that includes trigonometry, and satisfactory Math ACT and math placement scores; or Math 117 or Math 118, with a grade of C or better.

Exponential and logarithmic functions, derivatives, integration, first order differential equations, and systems of linear equations, with major emphasis on applications in life sciences.

2. General Education goal(s) met by the course. To be considered for inclusion in the General Education program, your course must fulfill at least one of the ten General Education Goals and Objective listed in Appendix I.

Math 142 will fulfill Goal 4 (*the ability to understand and apply mathematical skills and concepts*). Therefore, we request that the course be included in Category D-II:

Mathematics. In addition to learning skills in a variety of mathematical areas, students in Math 142 will focus heavily on applying those skills to the life sciences in which their primary interests lie.

3. Syllabus statement of how the course meets the General Education goals listed in item 2.

The syllabus for every General Education mathematics course at WKU contains the following statement regarding the departmental goals that were approved by the General Education Task Force.

This course satisfies the General Education requirement in Category D-II, with the goal of providing students with the ability to understand and apply mathematical skills and concepts. After completing this course, students will be able to use fundamental mathematical reasoning principles; use graphical,

symbolic, and numeric methods to solve practical problems; and interpret information presented in tables and graphs.

4. Assessment plan.

Math 142 will join the other General Education mathematics courses in the end-of-semester assessment process that the faculty has implemented each semester since Spring 2003. The assessment results for this course will be included in the departmental report that is submitted each spring to the University General Education Assessment Coordinators.

5. Dates of prior committee approvals

Department of Mathematics: March 21, 2007

Ogden College Curriculum Committee: April 5, 2007

University Curriculum Committee: April 26, 2007

University Senate: May 10, 2007

General Education Committee: September 11, 2008