Math 450 — Spring 2016 — Hughes

Course Title: Methods of Advanced Calculus  
Time: MWF 12:00 - 12:50 p.m.  
Place: EGRA 222  
Final Exam: Monday, May 9, 12:30 p.m. - 2:30 p.m.  
Prerequisite: Math 251 with C or better  
Instructor: H. R. Hughes  
Office: Neckers 391  
Phone: 453-6593  
E-mail: hrhughes@siu.edu  
Office Hours: MW 1:30-3:00, RF 9:00-10:30, or by appointment

Course Content. This course covers topics in multivariate calculus: differentiation, integration, inverse and implicit function theorems, contraction mapping and fixed point theorems, line, surface and volume integrals, change of variables, differential forms, Stokes' theorems. We will use sections from chapters I - V in the text and, on occasion, supplementary handouts.

Requirements and Grading. Grades will be determined on the basis of the following:  
Homework and quizzes 30%  
Two one-hour exams 40%  
Final exam 30%  
Homework will be collected regularly. Late homework will not be graded. The lowest 20% of homework and quiz grades will be dropped. Exams can only be made up in exceptional circumstances (such as documented illness) as approved by the instructor. It is in your best interest to get approval for make-up exams in advance when possible.

Regular attendance and consistent homework are essential for successful completion of the requirements of the course. Cooperation with your classmates and the use of resources outside of the textbook are encouraged on homework when the end goal is to increase each individual's proficiency in the material. All work handed in must be your own work in your own words or have sources properly cited. You will be expected to write your work in complete sentences in a logical order.

Withdrawal. The last day to withdraw from the course without a grade is Sunday, January 31. The last day to withdraw from the course with a grade of W is Sunday, April 3. You should be aware that the grade INC (incomplete) cannot be used as a withdrawal and can only be assigned to students who are passing the course and for reasons beyond their control cannot complete all class assignments. See the undergraduate or graduate catalog for more details.

For more information about several university policies, follow this link:  