

Math 327 – Advanced Calculus
Fall 2012

Instructor – Dr. Fraboni
Office: PPHAC 221
Phone: x1605
mfraboni@moravian.edu
Office hours: Tue: 10-11:30, Wed/Fri: 1-2

Course Materials – The text for this course is *Advanced Calculus*, Fifth edition, by Wilfred Kaplan.

Course Goals – After successfully completing this course you will:

- have an understanding of differential calculus of functions of several variables including the general chain rule, differentials, and the implicit function theorem.
- have an understanding of integral calculus of vector functions including line integrals, surface integrals, and Green's and Stokes' theorems.
- have improved your proof writing skills.

Homework – Each day there will be reading and homework assigned. Homework will be collected and graded approximately once a week.

For every hour in class you should expect to spend at least 2 hours doing work outside of class. You cannot learn mathematics without lots of practice!

Oral Presentation – Each student will prepare and present a topic related to modern algebra to the class. These presentations are scheduled for the last two weeks of the semester.

Exams – There will be three in-class exams and a cumulative final. The tentative dates for the in-class exams are Thursdays Sept 27 and November 1. The final will be on Monday December 10 at 8:30am.

Attendance – Mandatory. Regular attendance is vital. A late assignment will be graded with a reduction of 10% for each day it is late. There will be no make-up quizzes given, and make-up exams are given only in extreme, pre-approved cases. If you must miss an exam it is your responsibility to contact me in advance. Students who are unable to attend class are responsible for all assignments and material covered in that class.

Grading – Grades will be the result of quizzes, homework, and three tests. The breakdown is as follows:

- Homework – 20%
- Presentation – 10%
- In-Class Exams – 20% each
- Final Exam – 30%

Disclaimers – This syllabus is subject to change through the semester. Any updates to the syllabus will be announced in class. The instructor reserves the right to apply qualitative judgment in determining final grades for the course.

Learning Disability Accommodations – Students who wish to request accommodations in this class for a disability should contact Elaine Mara, assistant director of learning services for academic and disability support at 1307 Main Street, or by calling 610-861-1510. Accommodations cannot be provided until authorization is received from the Academic Support Center.

Mathematics Department Academic Honesty Policy – The Mathematics Department supports and is governed by the Academic Honesty Policy of Moravian College as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

In all at-home assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. You also may not use a solution manual or the help (orally or in written form) of any individual other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. You may work with your fellow students on homework which is not to be graded. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and un-graded.

All in-class or take-home tests and quizzes are to be completed by you alone without the aid of books, study sheets, or formula sheets unless specifically allowed by your instructor for a particular test.