Instructor: Alicia Sevilla  
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Office hours: M W F, 10:30-11:20 a.m., M W 1:30 - 2:10 p.m., Th 1-2:00, and by appointment  


Graphing Calculator: All students are expected to have a graphing calculator and bring it to class. We recommend the TI-83; instructions will be provided on this calculator.  

Course Content: This is a first course in calculus, and no background in calculus is necessary. Three years of high school mathematics, including trigonometry, are assumed. The course will cover Chapters 1 – 5 of the textbook. Topics included are: Functions and Models, Limits and Derivatives, Differentiation Rules, Applications of Differentiation, and Integrals.  

Course Goals: Upon successful completion of this course a student will  
- be able to work with functions algebraically, graphically, and numerically, and use them to model quantitative problems;  
- understand the concepts of limit, continuity, derivative and integral, and the relationship between them;  
- know how to find limits and calculate derivatives using various techniques; and  
- improve communication and technical writing skills by discussing mathematical problems and presenting solutions.  

Assignments and Quizzes: Daily reading and problem assignments will be given; students are expected to come to class prepared to explain problem solutions and ask questions on the material assigned for that day. Announced short quizzes will be given frequently in class and also there will be a few take-home quizzes. The quizzes will include questions on the reading assignments as well as problems similar to the exercises assigned for homework.  

Exams and Proficiency Tests: There will be two exams and a comprehensive final exam. The dates of the two exams are: **Friday, September 30** and **Friday, November 11**. The date and location of the final exam will be announced by the Registrar’s Office later in the semester.  

In addition to the regular exams, there will be two Proficiency Tests: Limit Proficiency Test and Derivative Proficiency Test. These are short tests (30 minutes) and are designed to test your
ability to find limits and compute derivatives, without the use of a calculator. Students need to pass these two proficiency tests with a grade of 80% or more, to complete this course. There are multiple opportunities to take these proficiency exams. The dates for the proficiency exams will be announced in class.

Lab Projects: There will be some (3 or 4) group projects in which each student will work with 2 or three other students. These projects emphasize problem-solving and clear written communication. They will include an in-class experimental portion and a reflective write-up portion.

Grading: Each student’s grade will be determined as follows:

- Class Participation: 5%
- Quizzes: 15%
- Labs: 15%
- Limit Proficiency Test: 5%
- Derivative Proficiency Test: 10%
- Two Exams: 30% (15% each)
- Final Exam: 20%

Attendance: Class attendance is required. Students are responsible for all work covered in class and all assignments, even if absent from class. If a student must miss more than one class due to illness or emergency, the instructor should be notified. In-class exams must be taken at the announced time; make-up exams will be given only in case of extreme emergency or serious illness. There will be no make-up quizzes.

Help: Students are encouraged to see Dr. Sevilla during office hours or to arrange an appointment for extra help when needed. Student tutors are available for assistance Monday through Thursday evenings every week. There is no charge for this help. Tutors may not help with projects or take-home quizzes.

Students who need special accommodations due to a disability should contact the Learning Services Office, so we can accommodate their special needs.

The following Academic Honesty Policy Guidelines are to be followed. Please read them carefully.
ACADEMIC HONESTY POLICY GUIDELINES

MATHEMATICS COURSES

The Mathematics and Computer Science 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 faculty.

In all homework 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. For graded homework assignments, you may not use a solution manual or the help, orally or in written form, of an 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. For homework which is not to be graded, if you choose, you may work with your fellow students. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and ungraded.

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 you instructor for a particular test.