

Math 170 – Calculus I
Spring 2011 – MWF 7:30-8:40am

Instructor – Dr. Trisha Moller
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Office hours: M 7:00-8:00pm (online), WF 8:45-9:00am or by appointment

Course Materials – The basic text is *Calculus, Sixth Edition*, by James Stewart. In addition, all students are expected to have a graphing calculator and bring it to class. We recommend the TI-83plus; instructions will be provided on this calculator, but students who wish to use a comparable calculator may.

Course Goals – In this course you will be learning the mathematical language of change. In particular you will learn differentiation methods and the concepts behind them, concepts of integration and how to work with functions graphically, algebraically, numerically, and verbally. You will also learn how to apply these methods to real world problems and how to discuss and present solutions to mathematical problems in written and oral form.

Exams – We will have two in class exams and a final exam. If you must miss an exam it is your responsibility to contact me *in advance* to make arrangements.

Proficiency Tests – In addition to the regular exams there will be two proficiency exams. When these exams are first given in class your recorded score will either be a 0% or 80-100%. If you receive a 0% then you may retake the exam as often as necessary within 4 weeks of the original exam date. When you score at least an 80% on a retake, your recorded score will be changed to an 80%. Thus the only way to receive a score of more than 80% is to do well the first time you take the test.

Homework/Quizzes – Each day there will be homework assigned. Some problems will be turned in, some are just for practice. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference. For every hour in class you should expect to spend 2 hours doing work outside of class. You cannot learn math without lots of practice!

Approximately once a week we will have a short, in-class quiz or hand-in homework assignment. The quiz questions will be based mostly on the assigned homework problems. The best way to do well on the quizzes is to do all the assigned homework.

Attendance – Regular attendance is vital. A late assignment will be graded with a reduction of 20% for each day it is late. There will be no make-up quizzes given, and make-up exams are given only in extreme, pre-reproved cases.

Evaluation, Grading, and Dates of Exams/Tests – Grades will be computed based on the weights below. Tentative dates for exams are listed below, as well.

Quizzes/Homework (worth 18%)

Limit Proficiency Test (worth 7%), **Wednesday, February 9**

. Retakes may be done through Friday, March 4.

Exam 1 (worth 18%), **Wednesday, February 23**

Derivative Proficiency Test (worth 12%), **Friday, March 25**

. Retakes may be done through Wednesday, April 20.

Exam 2 (worth 18%), **Wednesday, April 13**

Final Exam (worth 26%), **Thursday, May 5 at 1:30-4:30pm**

**If you work with someone else on homework for Math 170
(classmate, tutor, professor, roommate etc.),
PLEASE NOTE THIS at the top of your hand in assignment!**

Learning Disability Accommodations – Students who have documented learning disabilities and wish to request accommodations for this class should contact the Learning Services Department. Accommodations cannot be provided unless official documentation is received from the appropriate campus office.

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.

****IMPORTANT NOTE****

**You are responsible for any announcements made in class,
including changes to this syllabus!**

COURSE OUTLINE

Day	Date	Stewart	Assignment
M	1/17	1.1 1.2	1, 5-9odd, 27-31odd, 41 1,3,4,5 READING: Email 1. Interesting/Surprising fact 2. Math Background
W	1/19	1.3 1.1 1.5	1-5odd, 9-11all, 16, 17, 31, 33, 55 23,25 Handout
F	1/21	1.5 1.6	7,11,15 1,3,7,9,21,35-39odd,47,49
M	1/24	2.1: Slopes 2.2	1,5
W	1/26	2.2 2.3	1-9 odds,13,15,21,25-27 all
F	1/28	2.3	1,3,11-17odd,21-25odd,39,40,46
M	1/31	2.6	1-7odd,15-31odd,39-43odd
W	2/2	2.6 2.5	Give Limit Proficiency Practice Test for HW 1-11 odd
F	2/4	2.5	16-18all,21,23,31-37odd, 41
M	2/7	2.4 Review	1,2,3,15-21odd worksheet Limit Proficiency Practice Test (in class)
W	2/9	LIMIT PROF 2.7	covers 2.1-2.3, 2.6 1,3,7
F	2/11	2.7 2.8	17,19,21,25,27 1,3,21,25
M	2/14	3.1	3-37 odd, 45, 47
W	2/16	3.2 Product Quotient	1-21 odd, 27, 31, 41, 43 1,3,9,11,17,27 5,7,13,15,19,21,31,41,43
F	2/18	App D: Trig Review 1.6	(1,7,11,19,29, 31) (59,63,65-71 odd) 1.6: 59-63odd
M	2/21	3.3	1-15odd,18,21,31,33
W	2/23	EXAM	EXAM
F	2/25	3.4	1-21 odd, 25-29 odd, 33-39odd,51,53,61
M	2/28	3.5	3-17 odd,25, 27
W	3/2	3.5 3.6	45-48 all, 53, (59 orthogonal stuff), 65 3,7-19odd,25, 34
F	3/4	3.6	37-45odd Last day for Limit Prof retakes

Day	Date	Stewart	Assignment
M	3/7	NO CLASS	SPRING BREAK
W	3/9	NO CLASS	SPRING BREAK
F	3/11	NO CLASS	SPRING BREAK
M	3/14	3.7 3.8	1 & 3abcg, 9, 23 1,3,9,19a
W	3/16	3.9	3-9 odd, 11-13all, 15,20, 27
F	3/18	3.9	
M	3/21	4.1	1-9 odd, 15, 17, 31, 35, 47-57 odd
W	3/23	4.2	1-5 odd, 11-17odd, 25
F	3/25	DERIV PROF 4.3	1, 3, 9-17 odd, 23,25
M	3/28	4.3 4.4	1-21odd,29,31,37,(43,53,55),69
W	3/30	4.4 4.5	7,9,11,19,43 handin: 4,16, 32
F	4/1	4.5	4,7,9,11,19,32,43
M	4/4	4.7	3,5,9,10,13,14,16,17,30,31
W	4/6	4.7:	Optimization
F	4/8	4.9	1-33odd (not 17), 37, 39, 41, 57, 59
M	4/11	Review	
W	4/13	EXAM	EXAM
F	4/15	5.1	3,5,17,19
M	4/18	5.2	1,17,29,33, 35, 36, 39, 41, 47, 49
W	4/20	5.3	1,3, 7, 9, 19-35odd Last day for Deriv Prof retakes
F	4/22	NO CLASS	EASTER BREAK
M	4/25	NO CLASS	EASTER BREAK
W	4/27	5.4	5-11 odd, 21-35 odd,59
F	4/29	5.5 Review	1-11odd, 21-31odd, 51-61odd