

Math 170 – Calculus I

Spring 2015

Instructor – Dr. Trisha Moller

Office: PPHAC 223

Phone: 610-861-7932

Email: mollert@moravian.edu

Office hours: MWF 8:45-9:15am or by appointment

Course Materials – The basic text is *Calculus, Single Variable, Second Edition*, by Jon Rogawski.

In addition, all students are expected to have a graphing calculator or graphing app and bring it to class. We recommend the TI-83plus as a calculator; instructions will be provided on this calculator, but students who wish to use a comparable calculator may. Please refrain from using your cell phone or smartphone during class, unless asked to use as a resource.

Course Goals – In this course, you will be learning the mathematical language of change. Upon completion of this course, a student will be able to use the basic techniques of differentiation and integration, understand and apply the concepts underlying these processes, and understand the connection between the two operations, both theoretically and computationally. A student will also have a deeper insight into the power of Calculus as a tool for modeling real world situations, and be able to work with functions graphically, algebraically, numerically, and verbally.

Course Topics – We will briefly review Ch.1 and cover most sections of Ch.s 2-5. The topics to be covered are a review of Precalculus concepts, graphical and algebraic understanding of limits, the definition of a derivative, differentiation rules, techniques for graphing functions, applications of derivatives, the definition of an integral, graphical and algebraic understanding of integrals, and the Fundamental Theorem of Calculus.

Attendance – Class attendance is required. My definition of "Attendance" includes being prepared for class. Thus, bringing a textbook/notebook/pencil to class, reviewing notes before class, completing the homework assignments before the next class meeting, and participating in class discussions are all expected of each student.

If a student is absent, he/she must inform the instructor via email before or on the day of the absence. It is the student's responsibility to keep up with all work covered in class and all assignments, even if absent from class.

Workload – For every hour in class you should expect to spend 2 hours doing work outside of class. Thus, you are expected to put in **7-8 study hours per week!** Math is not a spectator sport; you cannot learn math without lots of practice!

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

Study Guide – You are required to complete a study guide outline of each section of the text-book. These are due on each exam day and should be used as a study tool.

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. NOTE: While a student may not earn a passing grade in Math 170 without earning at least 80% on each proficiency test, earning a passing grade on these tests is no guarantee of an overall passing grade for the course.

Projects – There will be 4 written assignment projects given throughout the semester. These projects should be completed outside of class time on an individual basis, unless noted. Directions and due dates will be given with each assignment.

Homework/Quizzes – Homework assignments will constitute an important part of this course and will be assigned daily. The problems assigned for homework represent a bare minimum, and you should work extra problems to ensure mastery of the material. It is vital that you do all the homework problems assigned; you should keep all your work in a binder or notebook for reference.

We will also have short, weekly, in-class quizzes, based on the assigned homework problems. The best way to do well on the quizzes is to do all the assigned homework. There will be no late assignments, no make-up quizzes, and make-up exams are given only in extreme, pre-approved cases.

**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!**

Evaluation, Grading, and Dates of Exams/Tests – Grades will be computed based on the weights below. Tentative dates for exams are listed below. It is within the purview of the instructor to apply qualitative judgment in determining grades for an assignment or for a course.

Quizzes/Homework (worth 14%)

Projects (worth 4%)

Limit Proficiency Test (worth 12%), **Wednesday, February 11**

. Retakes may be done through Monday, February 23.

Exam 1 (worth 16%), **Wednesday, February 25**

Derivative Proficiency Test (worth 14%), **Wednesday, March 25**

. Retakes may be done through Monday, April 13.

Exam 2 (worth 16%), **Wednesday, April 15**

Final Exam (worth 24%), **Thursday, May 7, 1:30-4:30pm**

Course grades will be determined by the following scale:

93-100: A	73-77: C
90-93: A-	70-73: C-
87-90: B+	67-70: D+
83-87: B	63-67: D
80-83: B-	60-63: D-
77-80: C+	< 60: F

Syllabus Status – This syllabus and the course contents are subject to change at the discretion of the instructor. Generally changes will be finalized only after discussion of the change with students in the class. Any updates to the syllabus will be announced in class and sent by email. Students are responsible for any announcements made in class and are expected to check email on a daily basis for course updates.

Canceled Classes – Class may be canceled due to weather or for some other reason. In the case of cancellation, the instructor will send an email to inform students of the cancellation. It is the student's responsibility to check email prior to each class period to determine if class is canceled.

e2Campus – In the event of an emergency the system called e2Campus allows Moravian College to send text messages to the cell phones of registered members of the campus community with information about what is happening and/or what precautions should be taken. Up to two cell phone numbers and two email addresses per user may be registered. This service is an integral part of the College's emergency response system. If you are not already registered on the system, please do so as soon as possible. To register for e2Campus, visit <http://intranet.moravian.edu/e2campus/index.asp> from a computer on Moravian's campus.

Learning Disability Accommodations – Students who wish to request accommodations in this class for a disability must contact Ms. Elaine Mara, assistant director of academic support services for academic and disability support, at the lower level of Monocacy Hall, or by calling 610-861-1401. Accommodations cannot be provided until authorization is received from the Academic Support Center.

Academic Honesty – For graded assignments, you may use your class notes and any books or library sources except a solutions manual. Any resources you use must be documented at the top of the homework assignment. As an example if you get help from the Tutor Center for problem 4 only, please write "Help with problem 4 from Tutor Center". No points will be deducted for honestly acknowledging help.

However if you do not document any appropriate resource, this is considered cheating. Students are encouraged work on problems together. However, acquiring an entire solution from a classmate is not acceptable. If two or more graded homework sets look similar, no points will be awarded for the entire homework set (with no warning). You are always welcome to come to office hours to see the instructor.

The College academic honesty policy appears in your Student Handbook; you are expected to be familiar with it. The Academic Honesty Policy Guidelines specific to mathematics classes are reiterated at the end of the syllabus. They apply to work done outside of class as well as to in-class quizzes and tests. Please read them carefully. If you are unsure about the propriety of a particular procedure or approach, please consult with your instructor before continuing with the assignment.

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.