# Math 106 – Calculus I
## Spring 2012 – MWF 7:30-8:40am – PPHAC 117

**Instructor** – Dr. Trisha Moller
     Office: PPHAC 223
     Phone: 610-861-1335
     Email: metmm01@moravian.edu
     Office hours: MWF 8:45-9:15am or by appointment

**Course Materials** –

- **Texts:**

  1. Jon Rogawski, *Calculus, Single Variable, Second Edition*, $2^{nd}$ edition, W.H. Freeman and Company, 2012.

  2. Ebersole, Schattschneider, Sevilla, Somers, *A Companion to Calculus*, $2^{nd}$ edition, Thomson Brooks/Cole, 2006.

- **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, but students who wish to use a comparable calculator may.

**Course Goals** –  This is Part I of a two-semester course in Calculus that includes a review of algebra and elementary functions. In this course you will learn the mathematical language of change. In particular you will learn the concepts of limits and continuity of functions and how to calculate them. You will develop the concept of a derivative as both a rate of change and as the slope of a tangent to a curve, and you will learn differentiation methods and the concepts behind them. You will learn 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.

**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 voicemail or 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.

**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. 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. Thus, for our class, I expect you to put in **7-8 study hours per week**! You cannot learn math without lots of practice!

Approximately once a week we will have a short, in-class quiz or homework will be collected. 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.

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-approved cases.

---

**If you work with someone else on homework for Math 106
(classmate, tutor, professor, roommate etc.),
PLEASE NOTE THIS at the top of your hand in assignment!**

---

**Exams** – There will be _three_ 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.

**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.
    Homework/Quizzes (worth 19%)
    Exam 1 (worth 19%): Monday, September 24
    Exam 2 (worth 19%): Wednesday, October 24
    Exam 3 (worth 19%): Monday, November 19
    Final Exam (worth 24%): Thursday, December 13, 1:30-4:30pm

Course grades will be determined by the following scale:

| 93-100: A | 77-80: C+ |
|-----------|-----------|
| 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- |
|           | <60: F    |

**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 the assistant director of Academic and Disability Support in the Academic Support Center, Monocacy Hall, lower level (extension 7625). 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.

---

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

---