

MONTGOMERY COLLEGE – ROCKVILLE

Department of Mathematics

Spring 2012

Calculus I (MA 181) Syllabus

MWF 10:00 – 11:25 am

CRN 30181

SW 014

Instructor Information:

Professor Ingrid Scott

Office: 05 Science West

Telephone: 240-567-5216

Office Hours:

e-mail: ingrid.scott@montgomerycollege.edu

webpage: www.montgomerycollege.edu/~iscott/ma181.html

Department Fax: 240-567-5182

Wednesdays 2:00 – 3:00 pm, Thursdays, 2:00 – 3:00, Fridays 11:30 am – 12:30 pm, or by appointment

Course Description: Intended primarily for students of the physical sciences, engineering, and mathematics. An introduction to major ideas of single variable calculus including limits, derivatives, and integrals of algebraic and transcendental functions; applications. PREREQUISITE: A grade of C or better in MA 180, appropriate score on mathematics assessment test, or consent of department. Assessment levels: EN 101/101A, RD 120. For computation of tuition, this course is equivalent to five semester hours. Five hours each week.

Course Outcomes: www.montgomerycollege.edu/Departments/math/Outcomes/MA181outcomes.pdf

Required Material:

- (1) Textbook: Stewart, *Calculus: Concepts and Contexts, 4th Edition*, Brooks/Cole Publishing Company, 2010.
- (2) Enhanced WebAssign access code to complete online homework.
(<http://webassign.net/>) Class Key: **montgomerycollege 2628 5763**
- (3) Graphing Calculator – TI-84/84+ or TI-83+ graphing calculator preferred

Recommended Supplies: 3-ring binder, hole-puncher, colored pencils/pens, graph paper, stapler

Calculator Policy: A graphing calculator is required. Students are not permitted to use a TI-89, TI-92, or similar calculators with computer algebra system capability. Calculators on cell/smart phones and calculator apps are prohibited on tests, quizzes, and the final exam.

Course Requirements:

Tests & Final Exam: There will be four (4) tests and one cumulative final exam. If a student takes all of the semester tests and the percentage earned on the final exam exceeds the lowest test score, then that test score will be replaced by the final exam percentage.

Quizzes will be announced. Take-home quizzes will be assigned occasionally. The lowest two in-class quiz grades will be dropped. There is NO make-up for missed quizzes.

Classwork & Homework: *Do it!* Learning mathematics is an active process - you cannot succeed just by listening or by watching someone else do problems. Students must be present in class to receive credit for classwork. Enhanced WebAssign (EWA) assignments should be completed as soon as the

corresponding sections are covered in class. Note the due dates – homework extensions will NOT be given.

Written homework assignments are due at the BEGINNING of class (10:00 am) on the designated due date. Late homework assignments will NOT be accepted.

Grading Policy and Criteria: Grades will be determined using the following distribution and scale.

		Grade
Tests	40%	A 100 – 90%
Quizzes	20%	B 89 – 80%
Classwork/Homework	15%	C 79 – 70%
Final Exam	25%	D 69 – 60%
		F 59 – 0%

Make-up Policy: Arrangements to take tests/quizzes on another day must be made **prior** to the day of the test/quiz and all related homework assignments must be completed. There will be no make-up for quizzes or tests once the assessment has been missed.

The lowest two in-class **quiz** grades will be dropped at the end of the semester. If a student misses **one** of the semester **tests**, then the percentage earned on the **final exam** will serve as the make-up grade

Attendance Policy: Regular attendance is expected, encouraged, and critical to the successful completion of this course. Please be aware that student(s) may be dropped if they have accumulated absences whose sum is more than the equivalent of one week’s worth of classes. Two late arrivals or early departures are the equivalent of one absence. Students are responsible for assignments made, work covered and announcements made during any absences.

Important Dates:

Sunday, February 12 th	Last day to withdraw with no grade; change audit/credit
Friday, February 17 th	Test #1
Friday, March 9 th	Test #2
March 12 th – March 16 th	Spring Break – No Classes
Friday, April 6 th	Test #3
Sunday, April 15 th	Last day to withdraw with a grade of <i>W</i>
Friday, April 27 th	Test #4
Friday, May 4 th	Last day of class
Monday, May 7 th	Final Exam (10:15 am – 12:15 pm) in SW 014
Friday, May 11 th	Final grade available and posted in MyMC

E-mail Communication Statement: MC student e-mail is an official means of communication for Montgomery College. Students are responsible for information and announcements sent via MC e-mail, and it is expected that students check their student e-mail regularly. When e-mailing an instructor, it is expected that students use their MC student e-mail account.

Math Science Center: The Center is an open space to work and/or seek specialized help. Faculty and student tutors, videotapes and interactive software are available.

Rockville Campus, Math/Science Center, Macklin Tower 02, 240-567-5200,
Hours: Mon. – Thurs. 8am – 8pm, Fri. 8am – 4pm, Sat. 10am – 3pm
<http://www.montgomerycollege.edu/Departments/mathscr/>

Accommodations for Students with Disabilities Statement: Disability Support Services (240-567-5058)
Any student who may need an accommodation due to a disability, please make an appointment to see me during my office hour. A letter from Disability Support Services (CB122) authorizing your accommodation(s) will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at: www.montgomerycollege.edu/dss/evacprocedures.htm

Academic Regulations & Student Code of Conduct

All MC students are expected to follow “Academic Regulations” & “Student Code of Conduct” as described in the MC Student Handbook. These regulations and guidelines can be found at:
www.montgomerycollege.edu/departments/academicvp/Student_PandP.htm

Inclement Weather

If inclement weather forces the College or any campus or College facility to suspend classes or close, public service announcements will be provided to local radio and television stations as early as possible. You may also call MC at 240-567-5000 or check the college website www.montgomerycollege.edu to verify MC school closings. Any exams planned on days classes are suspended will be administered at the first class meeting once classes resume. Note that the Montgomery County Public Schools (MCPS) and Montgomery College do not follow the same school closing procedures.

Sign up for the MC ALERT service at <https://alert.montgomerycountymd.gov/index.php> to receive text message or email alerts in the event of an emergency situation at Montgomery College (note: although signing up is free of charge, your wireless carrier may charge you to receive text messages).

Combat2College

If you are a veteran or on active or reserve status and you are interested in information regarding opportunities, programs and/or services, please visit the Combat2College website at www.montgomerycollege.edu/combat2college and/or contact Joanna Starling at 240-567-7103 or Joanna.starling@montgomerycollege.edu.

Tobacco-Free College

Montgomery College is a tobacco-free college. All tobacco products, including cigarettes and chewing tobacco, are prohibited from Montgomery College property. This includes its three campuses at Germantown, Rockville and Takoma Park/Silver Spring, its central administration building in Rockville, and all of its buildings, athletic fields, pedestrian walkways, entryways, outdoor terraces, campus bus stops and parking lots.
<http://www.montgomerycollege.edu/tobaccofree/index.html>.

COURSE REQUIREMENTS & STUDENT RESPONSIBILITIES:

- ✓ **Prepare for class.** Read the section in the text that will be covered in class. Attempt the example problems that are worked out in the text. Make notes about what you need to have clarified so you can ask questions during the lecture on that section. Send questions **via email** before the next class meets whenever possible.
- ✓ **Arrive to class on time.** If this is impossible, please enter class as quietly as possible. If you will be frequently late, you should switch to another section of this course to which you can arrive on time.
- ✓ **Have all materials out of your book bag and ready to use.** This includes textbook, notebook, paper, pencil, eraser, calculator, class handouts, and a list of homework questions. To request solutions for homework problems, write the section and problem numbers on the side board **before** class starts.
- ✓ **Missed Class:** If you miss a class, you are personally responsible for the material covered. You cover the material on your own by reading the text, working the assigned problems and completing class handouts (you can find these on the web page).

TENTATIVE SCHEDULE

Week	Date	Sections
1	1/23 – 1/27	Precalculus Review, 2.1 – 2.2
2	1/30 – 2/3	2.2 – 2.4
3	2/6 – 2/10	2.5 – 2.7
4	2/13 – 2/17	2.8, Test 1 Review, 3.1, Test #1 (Chp.2)
5	2/20 – 2/24	3.1 – 3.4
6	2/27 – 3/2	3.5 – 3.8
7	3/5 – 3/9	3.8 – 3.9, Test 2 Review, Test #2 (Chp.3)
	3/12 – 3/16	Spring Break – No Classes
8	3/19 – 3/23	4.2 – 4.3
9	3/26 – 3/30	4.4 – 4.6
10	4/2 – 4/6	4.7, Test 3 Review, 4.8, Test #3 (4.2 – 4.7)
11	4/9 – 4/13	4.8 – 5.1
12	4/16 – 4/20	5.2 – 5.3
13	4/23 – 4/27	5.4, Test 4 Review, Test #4 (Sections 4.8 – 5.4)
14	4/30 – 5/4	4.1, Final Exam Review