

MONTGOMERY COLLEGE – ROCKVILLE

Department of Mathematics

Fall 2011

MATH 181: Calculus I

CRN 20707 MWF 8:30 – 9:55 AM ROOM 014 SCIENCE WEST

INSTRUCTOR INFORMATION:

NAME: Dr. Brunett
OFFICE: 43 Science West
PHONE: (240) 567 – 4024
EMAIL: maria.brunett@montgomerycollege.edu

OFFICE HOURS:

**MONDAY 12:00 – 12:30 PM; TUESDAY 1:00 – 1:50 ; WEDNESDAY 1:00 – 1:50 PM;
THURSDAY 8:50 – 9:20 AM; FRIDAY by appt;**

You are welcome to visit my office during posted office hours without an appointment. In consideration of valuable time, have your questions and materials organized prior to your office visit. If you have been working on a problem, bring your work so that I can see how to best help you. **Note: Office hours are not to be used as a make-up class. If you plan on visiting my office after our class, be sure to take the time to organize your questions before you visit. Note that my office hours are shared by the students in all of my classes; thus, students must not monopolize the available time.** You are welcome to ask quick questions in the classroom before class start time or immediately after class.

However, please be aware that I may not always be available at these times. My office hours are the only times specifically reserved for student questions.

WEBPAGE: <http://www.montgomerycollege.edu/~mbrunett>

MY GOAL is for all of us to have a successful semester. I love mathematics, and I will help you understand the material as much as possible. However, I am very firm regarding my policies. Do not ask for exceptions.

COURSE INFORMATION: **Outcomes:** See webpage.

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.

Note: You will use skills that were mastered (or should have been mastered) in precalculus. If you are weak in any of the prerequisite skills you will be expected to review that material on your own as the semester timeline does not allow for coverage of material other than the required calculus material. My web page has review worksheets for your convenience.

MA 181 fulfills a General Education Program Mathematics Foundation requirement. Montgomery College's General Education Program is designed to ensure that students have the skills, knowledge and attitudes to carry them successfully through their work and personal lives. This course provides multiple opportunities to develop two or more of the following competencies: written and oral communication, scientific and quantitative reasoning, critical analysis and reasoning, technological competency, and information literacy. For more information, please see www.montgomerycollege.edu/gened.

COURSE MATERIALS:

TEXT: Calculus: Concepts and Contexts, 4th edition by J. Stewart Brooks/Cole 2010.
Solution manual(s) at the option of the student.

WEB ASSIGN CLASS KEY: montgomerycollege 6915 5530 Use of Web Assign is

optional.

CALCULATOR: The Texas Instrument model TI-83 Plus, 84, or 84 Plus is required. Models TI-89 and TI-92 are not permitted. Calculators will be integrated throughout the course as a tool for investigations and problem solving. On occasion instructors may request that a student complete certain tasks without a calculator, especially for problems related to topics in the formula restriction list. This formula list is included below the assignment table in the course outline. You must visit the Math Science Center (room 02 Macklin Tower) and request the TI Toolbox to be installed on your calculator.

COMPUTER & INTERNET ACCESS: I provide outlines and worksheets for most class meetings, extra practice worksheets, and test reviews on my webpage. You will be responsible for viewing/printing the extra worksheets and test reviews from my webpage for your personal use. You must print the worksheet for each section to use during class. Printing the outlines for each class is optional. The class outlines will be displayed via projection screen during class. Many students find it helpful to have a print copy. However, the college is no longer allowing students to print free of charge on campus, so the choice is yours.
<http://www.montgomerycollege.edu/~mbrunett/>.

NOTEBOOK: There are many materials on my webpage to help you prepare for class. You must print the worksheets for each section to have to use in class. You may choose to print the outlines for use in class. You should organize these materials for each section: outline and worksheet plus some note paper prior to class.

COURSE REQUIREMENTS & STUDENT RESPONSIBILITIES:

- ✓ **Prepare for class.** Review 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.
- ✓ **Print materials.** You must have the outline and worksheet for each section.
- ✓ **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 day pack and ready to use.** This includes textbook, notebook, paper, pencil, eraser, calculator, printed class note outlines, printed worksheets, reading notes, completed homework assignment, and a list of homework questions. To request solutions for homework problems, write the section and problem numbers on the side board before class.
- ✓ **Stay for the entire class.** You are expected to stay for the entire class period. Do not ask to be given a quiz, worksheet, or information ahead of schedule so that you can leave class early. If you can not commit to staying for the entire class period, you should register for another class.
- ✓ **Missed Classes:** 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 any class note outlines, worksheets, and homework assignments (you can find these on the web page). **My office hours are not to be used as a make-up class. If you can't complete the class outlines and worksheets on your own, you will need to get help with the problems listed in the Math/Science Center or a private tutor.**
- ✓ **Mastering the material:** Even if you attend every class, complete all the worksheets, do all the homework, and ask questions in class, you may find that you do not understand the material thoroughly enough to do well on exams. You are responsible for realizing this and seeking help in the Math Science Center and/or my office.
- ✓ **Remember you are responsible for your success in this course.** You must ask questions, work extra problems, and seek outside of class help as necessary.

READING ASSIGNMENTS: You are expected to review the section that will be covered prior to the class meeting. You should review to the extent that you have a general idea of the topic of the

section. You should also have tried to work through a couple of the examples presented in the text. You may be provided with a reading guide to follow while reviewing the section.

HOMEWORK: Completing homework is essential to success in a mathematics course. Attempt all of the problems in the assignment. If you have a question about a difficult homework problem, write the section and problem number on the **SIDE** board before class. Homework will be easier to do if you read and work through the text examples before the class presentation on that section. A limited amount of class time will be allotted for answering homework questions.

WORKSHEETS: Working problems in class is an important component in learning mathematics. A worksheet will be prepared and posted for most sections from the text. To encourage student participation, the worksheets will be collected on occasion. The worksheet scores will be averaged in with the quiz scores.

QUIZZES: A quiz will be given at the beginning of class on most Fridays. The quizzes will be modeling after the reading and homework assignments. To allow for a reasonable number of absences, the two lowest quiz scores will be dropped.

TESTS: There will be (3) semester tests in addition to the final exam. The entire class period will be used to take exams. Tentative dates are: Fri. Sept. 23rd, Wed. Oct. 19th, and Mon. Nov. 14th. When you complete the test, hand it to me personally. You may leave the room at this time. The only questions permitted during an exam are in reference to a misprint, omission, or illegible text. You are responsible for being prepared for the exam. Do not ask me how to do the problem, ask for a hint about how to do the problem, or ask whether or not your answer is correct. Please do not share your misery of being absent for a particular topic, that you forgot how to do the problem, or that you do not have enough time. You will not have the time to figure out problems on exam day. You are to come prepared, polished, and ready to complete the exam. You must turn in your test paper when time is called. I will give a warning before collecting exams. If you do not hand in your paper at collection time; I will not accept it later. It is your responsibility to keep track of time during the exam.

GRADING POLICY AND CRITERIA:

Your final grade will be determined according to the following distribution:

10%	WEB ASSIGN HOMEWORK	
30 %	QUIZZES	
30 %	TESTS	40% IF OPT OUT OF WEBASSIGN
30 %	FINAL EXAM	

GRADE SCALE

A: 90 – 100%
B: 80 – 89%
C: 70 – 79%
D: 60 – 69%

You will be given a grade report with your current average after each exam. If your current average is not satisfactory to you, you should take the appropriate actions to improve your average at this time. Note that is generally not possible to raise a failing or D average after the first exam to an A by the end of the semester. Do not continue the semester, expecting a miraculous grade on the final exam that will result in your desired grade in the course. Also note, that **NOTHING** can be done for a undesirable grade after the final exam.

MAKE-UP POLICIES:

MISSED CLASSES: If you miss a class, you are personally responsible for the material covered. You must: 1. check the web page for missed handouts, 2. read the text, 3. complete class outlines on your own, 4. work the homework problems, and 5. complete worksheets. Do not call or email me to find out what you missed in class. However, you should email me with a brief explanation of why you missed class. (See attendance policy.) **My office hours are not to be used as a make-up class.**

MISSED WORK: If you know that you will be absent on the due date of take-home quiz, you may hand in the quiz before the due date. Papers will not be accepted after the due date.

To allow for a reasonable number of unexpected absences, the lowest three scores will be dropped from the quiz category (this includes in-class quizzes, take-home quizzes and worksheets).

TESTS: If you know that you will be absent on the day of a test, it may be possible to make arrangements with me to take the test on an earlier day. This alternative is not automatic!! Each case will be considered individually. You should notify me as soon as possible regarding planned absences. There are no make-up exams provided for unexpected absences. If you miss an exam for an unexpected absence, the average that you earn on the final will make-up the score for your missed exam. There are no exceptions – do not ask!!

ATTENDANCE POLICY:

Students with excessive absences will be dropped from the course. If you miss more than three classes, especially if they are consecutive, you should contact me via email with an explanation and your intentions toward remaining in the course. If you miss more than three classes, without contacting me, you will be dropped from the course without further notice.

IMPORTANT DATES:

Last day to drop with refund: September 6th

Last day to drop with no grade recorded: September 20th

Last day to drop with grade of W: November 15th

College Holidays for students: September 6th, November 22 – 24th

Last day of class: December 9th

Final exam: December 12th, 8:00 – 10:00 AM

FINAL EXAM: The final exam is mandatory and counts for at least 30% of your final grade. It will also replace your lowest test score if your final exam percentage is greater than that test percentage. Everyone must take the final exam. It will count for 30% of your final grade regardless of whether it is used to replace your lowest previous test score.

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. For this class, student e-mail will be used frequently. If I should happen to miss giving an announcement in class, I will email the announcement. You should check your email before each class. Email will be used for reminders, announcements, or special updates. If you contact me through e-mail, you must use your student e-mail account (rather than a personal account) so that I can recognize you as a student. If your email address does not contain your full last name, you must include your full last name in the body of the email. I will check my email daily during the hours I am on campus.

MATH/SCIENCE CENTER: Room 02 Macklin Tower (301) - 279 – 5200

9:00 AM – 7:00 PM Monday; 8:00 AM – 8:00 PM Tuesday – Thursday 8:00 AM – 4:00 PM Friday & 10:00 AM – 3:00 PM Saturday. Tutors are available in the Math Science Center 9 AM – 3 PM Mon-Fri, 5 – 7 PM Mon.-Thurs., 10 AM – 3 PM Sat. to help with homework questions. This service is provided without charge. <http://www.montgomerycollege.edu/Departments/mathscr/>

Accommodations for Students with Disabilities Statement:

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 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; 240-567-5058) authorizing your accommodations will be needed. **DO NOT JUST HAND ME A LETTER IN CLASS!!! YOU MUST DISCUSS THE LETTER WITH ME IN MY OFFICE!!!** Students whose accommodation letter allows double time for exams *must be able to take their exams in the assessment center and finish within ninety minutes of the usual class ending time. If you know that you will not be able to do so, you can take your exam the day before the exam date. Otherwise you need to find another class that will better accommodate your schedule. DSS students may not request to take an exam at a later time or date than the normal class period.*

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

MY HONOR POLICY:

- (1) Be prepared to move to a designated seat if requested.
- (2) You are not to leave the room without permission.
- (3) You must not look anywhere in the room other than at your own test paper.
- (4) You may not use or even touch a cell phone. Remember your cell phone is to be silenced in class.
- (5) You may not speak to another student.
- (6) You may not share materials with another student.
- (7) Have all your materials ready. You may not retrieve items from your backpack etc.

Failure to observe all of the policies will result in a zero score for the test or quiz.

MY CLASSROOM BEHAVIOR POLICY: Your consideration of other students is expected in this class. Courtesy to your instructor and fellow students helps create an atmosphere where successful learning can take place. Every student is expected to behave in ways that promote a productive teaching and learning atmosphere. Following are some guidelines:

- (1) Arrive on time to class.
- (2) Have your questions ready and your attention on class.
- (3) Do not blurt out questions in class. Students should not interrupt someone else who is talking regardless of whether the person is the instructor or another student.
- (4) Do not talk with other students during the lecture. After the lecture presentation, we will work problems in class. At that time you can discuss problems with your classmates.
- (5) Students should not monopolize class time by repeatedly interrupting and asking questions in a manner that hinders the learning process of others.
- (6) Plan on staying for the full class period.
- (7) Silence cell phones and pagers.
- (8) No gum or meals during class. Bite size snacks and drinks are fine.
- (9) No food or gum during exams and quizzes.

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 call MC at 240-567-5000, check the college website www.montgomerycollege.edu to verify MC school closings, or sign up for Montgomery College ALERT! at www.montgomerycollege.edu/emergency. 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. Make safety your first concern. At the same time, you are expected to make your best effort to come to class unless the college is officially closed.

Armed Forces Veterans: 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

www.montgomerycollege.edu/combat2college/ and/or contact Joanna Starling at 240-567-7103/SV103 or Joanna.starling@montgomerycollege.edu.