Math 180 Calculus I. Section 3503, Fall 2015
MW 12:30PM-1:50PM, TTh 12:30-1:20PM Room 31-357
http://www.grossmont.edu/people/jeff-waller/

This course syllabus represents a legal contract. By enrolling in and staying in this course, you agree to all of the terms and conditions in this syllabus and any expansions on it made in class.
DON’T FORGET ABOUT THE FREE TUTORING AVAILABLE!!

Instructor: Mr. Jeff Waller, jeff.waller@gcccd.edu  Office Hrs: Monday: 11:30-12:30PM, 2PM-3PM
Office phone: 619-644-7248  Tuesday, Thursday: 7AM-7:25AM, 3PM-4PM
Office: Room 30-124 (in the science building)  Other times by appointment.

Prerequisite: A "C" or higher in Math 170 and Math 175, or in Math 176; or equivalent.

Objectives: This is the first semester course in calculus. We will be discussing topics from analytic plane geometry, limits and continuity of functions, differential and integral calculus with applications involving algebraic, exponential, logarithmic, trigonometric, and hyperbolic functions. Oh yes. We will be busy.

(The book listed above is good for both Calculus 1 and 2 (Math 180 and 280). You can rent textbooks at http://www.bookrenter.com.
I saw our book there for about $38 for a 125 day rental period.)

Calculator: A graphing calculator is required in class. I will be using the TI-84 Plus (very similar to a TI-83 or TI-83 Plus). Calculators CANNOT be shared during exams or quizzes so please bring your own calculator to class every class period. You can check out graphing calculators from the limited loan desk in the library on a first come, first serve basis.
CAS calculators that work directly with symbols cannot be used. Examples of CAS calculators include the HP 50g, the TI-Nspire CAS, the TI-89, and the Casio ClassPad. (You can RENT calculators at www.rentcalculators.org)

Grading: There will be several quizzes, group work, 4 tests, HW, and a comprehensive final.
- Test Average: 50% or 55%
- Quiz/HW Average: 20% or 25%
- Final Exam: 20% or 25% (Thursday, Dec 10, 11:35-1:35PM)

Percentages determined after final exam graded, scheme resulting in highest grade will be used.


Overview of policies:
- HW: You should be working on homework continuously. Have homework done two class periods after the date lectured. (So if I lecture through Section 2.1 on Monday, then all HW through 2.1 should be done by that Wednesday.) Turn in HW anytime up to the day of the test. After that, still turn it in, but it will be late.
  - If you turn the HW in before the review day for the test (HIGHLY RECOMMENDED), I will have time to give a more thorough look at it, write notes, and get it back to you so you can use it as a study tool.
  - If you turn the HW in on the review day or day of the test, it won't be considered late, but I won't have time to make notes and suggestions on it, and you'll get it back eventually.
  - You won't get a letter grade or percentage on the HW. Instead, I'll say OK (full credit), CORRECT (you have half credit and might get full credit if you correct your mistakes), REDO (redo the assignment for any credit), or NO CREDIT (you got no credit and can't get credit. Normally used if you blatantly copied from someone.)
  - HW corrections are not due until the day of the final exam. Focus on keeping up with new HW.
  - You should SHOW all work, use a pencil, WRITE LEGIBLY, and don't turn in paper with the jagged edge.
  - Learn how to staple. Staple assignments so that I can still see your work and any other information (section numbers, your name ...). Do NOT staple HW together with quiz or test corrections.
  - Write the section of HW and assignment at the top of the page. (e.g.: Section 2.1, page 86: 1,4,6,8,9)
  - Work turned in must be your own. Don’t copy from someone else, the back of the book, or solutions manual.
  - However, it is ok and a good idea to work on HW with classmates or to ask tutors or your instructor for help.
  - Please get up and leave now if you plan on not doing the HW for this class. Seriously. Go away. Now.
- **Attendance**: Any absence for a test or quiz must be explained to me immediately. The instructor may drop any student from the course who is marked absent for at least 3 classes. However, it is YOUR responsibility to drop this course if you no longer wish to be enrolled. Explain to me any circumstances that will cause you to be frequently late. If you are late, come in as quietly as possible.

- **Reviews for tests**: The class before each test will be devoted to review. You’ll get practice tests with answer keys.

- **Make-up policy**: Make-up tests and allowances for late HW will be allowed ONLY under special circumstances. You MUST contact me before or soon after (meaning within 24 hours) a missed test or quiz. Missed quiz grades will be replaced by the test grade provided that you contact me in time.

- **Test and quiz policies**: No tests or quizzes will be dropped. No notes, books, or cell phones allowed on tests. I reserve the right to change where students are seated in the room on the day of a quiz or test if necessary.

- **Test corrections**: Tests and quizzes can be corrected and turned back in for more points. Test and quiz corrections are due by the day of the next test. If you correct quizzes on time and then make a higher grade on the corresponding test, the test grade will either take the place of the lowest corrected quiz grade or proportionally average out with that quiz grade, based on how well you did on corrections. Corrections for tests and quizzes work this way:
  - I grade the heck out of corrections. If I get any inkling of an idea that you merely copied answers from someone else, **you won't get any points**. If you get caught copying corrections, you might not be allowed to correct any other tests or quizzes for the semester.
  - If you make an 80 or more, you will get up to 5 points back, up to a max of 100, if you do ALL of the corrections and get them ALL right. So, if you get an 87, you can get UP TO a 92. But with a 98, you can get UP TO a 100.
  - If you make less than an 80, you can get up to 1 point back for every 4 points you missed if you do ALL of the corrections and get them ALL right. For example, if you got a 64, you missed 36 points, 36/4=9, you could get UP TO 9 points back, making your grade a 73. **You can only correct a test, quiz, or HW assignment ONCE.**

**Assistance**: I will provide assistance during office hours or by appointment. Forming study groups to work on HW and to prepare for tests is encouraged, but ALL HW submitted should be your own. For information on FREE tutoring, contact the Math Study Center (http://www.grossmont.edu/academics/programs-departments/math/study-center) downstairs Tech Mall, room 70-112 at 644-7706 or the Tutoring Center (www.grossmont.edu/student-services/tutoring/tutoring-center.aspx) upstairs Tech Mall, room 70-202 at 644-7387.

**Academic honesty**: Cheating and plagiarism (using as one's own ideas writings, materials, or images of someone else without acknowledgement or permission) can result in any one of a variety of sanctions. Such penalties may range from an adjusted grade on the particular exam, paper, project, or assignment (all of which may lead to a failing grade in the course) to, under certain conditions, suspension or expulsion from a class, program or the college. If you copy homework, you will not get any credit for that assignment. At the least, a grade of zero will be given for any exam, quiz, or HW on which you are caught cheating. At the most, you will fail the course and a report on the incident will be filed with student services. If you copy corrections to quizzes or tests from another student, then you will not get credit for those corrections and you will not be able to make corrections to ANY other tests or quizzes. For further clarification and information on these issues, please consult with me or contact the office of the Associate Dean of Student Affairs (644-7600).

**Miscellaneous, good-to-know items:**
- I will be videotaping lectures and posting them to youtube. There is a link to those videos on my website.
- Passing this course requires understanding the material covered. Doing HW and other assignments help you get practice with the concepts, but your grade is most affected by how well you understand the material.
- Getting behind on HW is just about the WORST thing a student can allow to happen. SEE ME if you do.
- **EXPECT** to work hard on homework and to study hard for exams and quizzes.
- **EXPECT** to seek help from tutors, from fellow students, and/or from me.
- Do HW and exams in **PENCIL**. Bring paper, pencil, your calculator, and your text book to class every day.
- **Disrespecting anyone in this class in any way WILL NOT BE TOLERATED.** Not only does disrespect mean making comments about another's race, ethnicity, accent, appearance, intelligence, sexual orientation, or religion, but also speaking while I or another student is speaking, continually coming to class late, and making non-constructive comments during lecture.
Disrupting the class in any way WILL NOT BE TOLERATED. Disrupting means creating or contributing to an environment which hinders the instructor’s ability to teach or your fellow students’ ability to learn.

Intolerance WILL NOT BE TOLERATED. Sorry … had to do it …

DON’T be shy about coming to my office hours or asking for other times to meet if my office hours conflict with your schedule. I am totally dedicated to your success in this course.

The maximum number of times a student may enroll in the same credit course is three times. A student can petition to take it a fourth time. Military withdrawals and withdrawals that occur due to fire or flood do not count in terms of repetition restrictions. This rule does not contain a grandfather clause. If a student has already reached the maximum number of course repetitions, they cannot take it again in this district.

*WARNING*: Many math students suffer from the “What the WHAT?” syndrome, characterized by a complete lack of understanding of material presented in a given class period. To prevent that from happening:

1. READ AHEAD so that you will be familiar with terms/procedures when you see them in class. Crazy, huh?

2. ORGANIZE your study time - plan on studying and doing HW for at least an average of 10 hours/week.

3. STUDY PROPERLY. Rewrite notes, read the textbook, do your homework, organize a study group, take advantage of the free tutoring, make a list of questions to ask in the next class period …

4. PAY FULL ATTENTION in class. This does not mean merely copying everything I say and write on the board. It means at least making an attempt to wrap your brain around the concepts we discuss in class.

Disability Information: “Students with disabilities who may need accommodations in this class are encouraged to notify the instructor and to contact Disabled Student Services & Programs (DSP&S) early in the semester so that reasonable accommodations may be implemented as soon as possible. Students may contact DSP&S in person in Room 60-120 or by phone at 619.644.7112 or 619.644.7119 (TTY for deaf).”

Required statement about Tutoring Services:

- Students requiring additional help or resources to achieve the stated learning objectives of the courses taken in mathematics are referred to the Math Study Center in room 70-112 or the Tutoring Center in room 70-202.

- Students in Math 103 and above do NOT need to enroll in IDS 198. Enrollment in your math course will put you into the system for the MSC.

Math 180 Student Learning Outcomes

Upon successful completion of this course, a student will be able to

- define and apply the concepts of limits, continuity, derivatives and anti-derivatives to solve a variety of problems.

- demonstrate understanding of the geometric relationship between a function, its first and second derivatives and its anti-derivatives.

- interpret and analyze information to develop strategies for solving problems involving related rates, optimization, work, volumes, arc length, and surface area.

- communicate the mathematical process and assess the validity of the solution.