

Calculus I

Grossmont College, Summer 2019

Instructor: Kyle Havens	Course: Math 180	Section: 1114	Units: 5
Days: Mon, Tues, Wed, Thurs	Time: 10:30am to 1:45pm	Room: 100-119	
Website: www.havensmath.com	Email: kyle.havens@gcccd.edu	CourseID: gcccd 0400 0113	

Required Materials:

1. **Graphing Calculator** (TI-84+ recommended, TI-83 acceptable, CAS calculators are not allowed)
2. **WebAssign access code** including eText. You have two options:
 - Can be purchased by itself online via WebAssign while registering
 - Can be purchased with a new copy of the textbook (make sure it comes with WebAssign)

Textbook: *Calculus: Early Transcendentals*, 8th Edition by Stewart (ISBN: 978-1285741550)

Prerequisite: A passing grade in Math 176 (Precalculus) or Math 170 and Math 175 (Trigonometry and College Algebra) or equivalent. A or B strongly recommended.

Course Objective: 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.

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.

Class Performance: Your final grade in my class will be calculated with the following weighting system.

25%	Final Exam	Cumulative. You must get a "D" on the final exam to pass.
45%	Test Average	The average score of your in-class exams.
20%	Homework	Online via WebAssign.
10%	Quizzes/projects	The average score of your quizzes/projects.

Letter Grade: The letter grade you receive will be based on your total score from the above system.

98-100%: A+	88-89%: B+	78-79%: C+	
92-97% : A	82-87%: B	70-77%: C	
90-91%: A-	80-81%: B-	60-69%: D	Under 60%: F

The grade you receive at the end of the semester will be the grade you earned based on the grading system. All requests for an opportunity to improve your grade due to personal circumstances will be denied. Borderline grades may be rounded up if student has good attendance.

Final Exam: The final exam is cumulative and will be held at the following time:

Thursday, July 18th from 10:30am to 1:45pm.

Participation: Participation in the course is critical to success. The way you can participate in class will vary day to day, which could include a quiz, group activity, lecture, or individual practice. You may be dropped for missing more than 2 classes. If you must miss class, notify me in advance. Do not plan to miss any exams.

Quizzes/Projects: We will have assorted quizzes/projects throughout the semester. Each quiz will occur during the first 15 minutes of class and consist of one problem from a previous topic. Each quiz will be graded on a 4-point scale. If you get the problem correct you will receive 4 points. If you make a minor mistake or non-calculus error, you will receive 3 or 4 points. If you make a major error or a calculus error, you will receive either 1 or 2 points. If you get below a 3, you will be allowed to make up the quiz for up to 3 points. Quizzes will be given intermittently but are not scheduled in advance. I will warn you the day before a quiz occurs. Projects are also not scheduled in advance, but you will always have at least 1 week to work on it. You may collaborate on the projects but each project must be turned in individually. Copying a project will not be tolerated. Each project is worth 10 points (equivalent to two and a half quiz scores).

Homework: Homework will be completed online through WebAssign (www.webassign.net). One section of homework will be assigned for each section covered in class, consisting of anywhere between five to twenty problems. You are responsible for keeping up with the online homework. Make sure you check often to make sure you are not falling behind. If you do not plan on doing any homework please drop this class immediately.

Exams: There will be a total of two normal exams covering roughly one or two chapters of material. No notes or books are allowed on exams unless specified. Non-CAS calculators are allowed on exams. Cell phones and CAS calculators are not allowed on exams. Skipping an exam will result in a zero on that exam. Contact me before missing an exam if you have an emergency.

Canvas: Course announcements will be made online through Canvas (gcccd.instructure.com). I advise that you turn on email announcements in settings so that you are emailed whenever an announcement is posted.

Students with Disabilities: Students with disabilities who may need accommodations in this class are encouraged to notify the instructor and contact Accessibility Resource Center A.R.C. early in the semester so that reasonable accommodations may be implemented as soon as possible. Students may contact A.R.C. in person in building 60, room 120 or by phone at (619) 644-7112 (voice) or (877) 561-8975 (Video Phone for the deaf).

Academic Integrity: 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. For further clarification and information on these issues, please consult with your instructor or contact the office of the Associate Dean of Student Affairs.

Tutoring: All math students receive free tutoring from the Math Study Center located in the Tech Mall, room 70-112. You will need to swipe your ID card to obtain access to the room. Call (619) 644-7706 for more info.

Behavioral Expectations:

- Cellphones on silent.
- Be in class on time and don't leave class early. If you are late or leave early you may be marked as absent for that class. You can be dropped from the course for more than 6 hours of absences.
- Participate! Be attentive, take notes, and ask questions.
- Don't talk during lecture or while other students are asking questions.
- Do not go outside in the middle of class to make or answer a phone call.
- Comments about another's race, ethnicity, accent, appearance, intelligence, or sexual orientation will not be tolerated on any level.

This course adheres to the policies outlined in the Grossmont College Catalog.

Modifications may occur due to unforeseen circumstances

Estimated Schedule

Date		Monday		Tuesday		Wednesday		Thursday
JUNE	10	Course Intro <i>Review Precal Ch1</i>	11	2.1 2.2	12	2.3 2.4	13	2.5, 2.6 2.7
	17	2.8 3.1	18	3.2 <i>Review/Catch-Up</i>	19	Test #1 <i>Ch2</i>	20	3.3 3.4
	24	3.5 3.6	25	3.7 3.8	26	3.9, 3.10 3.11	27	4.1 <i>Review/Catch-Up</i>
JULY	1	Test #2 <i>Ch3</i>	2	4.2, 4.3 4.4	3	4.4 4.5, 4.6	4	NO CLASS <i>Independence Day</i>
	8	4.7, 4.8 4.9	9	5.1 5.2	10	5.3 <i>Review/Catch-Up</i>	11	Test #3 <i>Ch4-5</i>
	17	5.4 5.5	18	6.1 6.2, 6.4	19	6.5 <i>Review</i>	20	Final Exam <i>Cumulative, Ch5-6</i>