Course Syllabus

Course Objective

(1) Understand the concepts, techniques and applications of differential and integral calculus, and (2) improve problem solving and critical thinking. This class will form the basis for many of the standard skills required in all of Engineering, the Sciences, and Mathematics.

Text

We will cover Chapters 1-5 of *Essential Calculus, Second Edition* by James Stewart. You also will need an access code for the [WebAssign](https://www.webassign.net/colorado/login.html) online homework system. Here is purchasing information for the textbook and access code.

Recitations

Recitations meet on Tuesdays. The purpose of the recitation is to help clarify the concepts and techniques covered in lecture, to help you understand the homework, and to administer quizzes. *You will turn in written homework in recitation, see schedule.*

Exams

There will be three unit exams and a comprehensive final. The midterm exams will be given from 7 to 8:30 pm on **Sep. 19, Oct. 17, and Nov. 14** with no exceptions. The final exam will be given on **Monday, Dec. 17, 7:30 to 10 a.m.** Check the course webpage for exam locations. There will be no make-up exams or early exams.

Please bring your CU BuffOne Card to each exam. Electronic devices of any kind (*e.g.* calculators, computers, MP3 players, cell phones, smartwatches, etc.) are **NOT** allowed during the exams.

If you are unable to take an exam due to illness, you must bring a note from your doctor which sufficiently documents your illness and absence. Your course grade then will be determined by the rest of your course work.

Students who qualify for [special accommodations](https://canvas.colorado.edu/courses/19821/assignments/syllabus) must present the appropriate paperwork to their instructor within the first two weeks of class.
**Course Grade Determination**

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exams</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exam 1</td>
<td>100</td>
<td>75%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Exam 3</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td><strong>Written Homework</strong></td>
<td>50</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Online Homework</strong></td>
<td>50</td>
<td></td>
</tr>
<tr>
<td><strong>Quizzes</strong></td>
<td>50</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>600</td>
<td>100%</td>
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There is a total of 600 points for the course. After the final exam, your exam, homework and quiz scores will be combined to determine your course grade. The approximate course grade lines will be calculated based on the following:

- A- $\geq 90\%$
- B- $\geq 80\%$
- C- $\geq 65\%$
- D- $\geq 55\%$

These grade cuts may be lowered very slightly (i.e. "made easier") but they will not be raised (i.e. made harder). Note that in order to receive a grade of C- or above, you must achieve at least partial mastery of all four core topics (see below).

**Mastery of Core Topics**

There are four core topics that you are expected to master by the end of the course. They are trigonometry, limits, derivatives, and integrals. These topics form the basis for upper level math, science, and engineering courses.

<table>
<thead>
<tr>
<th>Proficiency Level</th>
<th>Core Topic Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mastery</td>
<td>90-100%</td>
</tr>
<tr>
<td>Near Mastery</td>
<td>80-89%</td>
</tr>
<tr>
<td>Partial Mastery</td>
<td>70-79%</td>
</tr>
<tr>
<td>Emerging Mastery</td>
<td>0-69%</td>
</tr>
</tbody>
</table>

The Test Yourself Quizzes will assess your understanding of these topics, permitting multiple attempts to demonstrate mastery. In addition each of the three midterm exams will include one or two core topic sections worth 20-30 points.
<table>
<thead>
<tr>
<th>Midterm</th>
<th>Core topic</th>
<th>Core Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>Trigonometry</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Limits</td>
<td>30</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Derivatives</td>
<td>30</td>
</tr>
<tr>
<td>Exam 3</td>
<td>Integrals</td>
<td>30</td>
</tr>
</tbody>
</table>

If your exam score on any core topic falls below 80% (near mastery level), you will be allowed several attempts to raise your core topic score, replacing the previous one, up to a maximum of 80%. This grade replacement policy will give you the opportunity to recover from a low midterm exam score.

Homework and Quizzes

Online homework, submitted through WebAssign (https://www.webassign.net/colorado/login.html), is due each lecture day by 8 a.m. Written homework is due once a week in recitation. Here is the lecture and homework schedule (https://www.colorado.edu/amath/sites/default/files/attached-files/hw_f18_1350.pdf). Late homeworks will not be accepted. Selected problems from each written homework will be graded. All of the online problems will be scored. There will be quizzes each week in recitation and four WebAssign quizzes.

At the end of the semester we will drop your three lowest scores from the online homework, two lowest scores from the written homework, and two lowest scores from the quizzes. This policy is designed to accommodate unexpected absences including illnesses.

Corrections Policy

It is your responsibility to review homework, quizzes, and exams within one week after they have been returned in class and to verify that the grades have been posted correctly in Canvas. After one week, we will assume the grades in Canvas have been correctly recorded and no further changes will be made.

APPM Learning Center

All TA office hours will be held in the APPM Learning Center ECCR 211. The schedule will be posted in Canvas and outside of ECCR 211. You can go to any APPM 1350 teaching assistant or faculty member for help.

Extra Help
In addition to office hours, the BOLD Center offers drop-in tutoring, the CU Residence Halls run regular Math Labs, and tutoring is available through the dorms, the Engineering Peer Advocates, and the Engineering Fellows.

**Electronic Devices in the Classroom**

During lectures and recitations, the use of smartphones, computers, and other electronic devices is prohibited unless approved by your instructor or TA.

**Blue Books**

Each student is required to purchase four blank blue books (https://www.cubookstore.com/p-73859-examination-blue-book.aspx) and give them to the TA by the second recitation (Sep. 4). These will be distributed for the exams, so please do not write anything (not even your name) on the front of the blue books.

**Academic Honesty**

Students may work in groups, however all work turned in must be your own. Violation of the CU Student Honor Code (http://www.colorado.edu/policies/student-honor-code-policy) will result in an automatic final grade of F in the course.

**Beyond Calculus I**

You must receive a grade of C- or better in this course in order to advance to APPM 1360 (a C or better in some majors).

**Dropping the Course**

Advice from the Dean’s office and your academic advisor is recommended before dropping any course. After Nov. 2, dropping the course is possible only with a petition approved by the Dean’s office.

**Accommodations for University-Related Extracurricular Activities**

Students formally affiliated with curricular and extracurricular University-related activities are required to communicate in writing with the instructor about potential conflicts within the first week of class or as soon as
the student learns of a conflicting event. This deadline is established in order to provide students with time to change their course schedule if necessary. Instructors are not obligated to accommodate any potential conflicts, but may, at their own discretion, allow reasonable accommodations for these absences.

**CU Policies**

Information about CU policies on Disability Services, Religious Observances, Classroom Behavior, Discrimination and Harassment, Academic Honesty and Honor Code, and Final Examination Policy can be found on the [CU Policies](#) page and are considered part of the syllabus for APPM 1350.
Accommodation for Disabilities

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the Disability Services website (http://www.colorado.edu/disabilityservices/students). Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu (mailto:dsinfo@colorado.edu) for further assistance. If you have a temporary medical condition or injury, see Temporary Medical Conditions (http://www.colorado.edu/disabilityservices/students/temporary-medical-conditions) under the Students tab on the Disability Services website.

Classroom Behavior

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on classroom behavior (http://www.colorado.edu/policies/student-classroom-and-course-related-behavior) and the Student Code of Conduct (http://www.colorado.edu/osccr).

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code (honor@colorado.edu (mailto:honor@colorado.edu)); 303-492-5550). Students who are found
Students who are found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found at the Honor Code Office website (https://www.colorado.edu/osccr/honor-code).

Religious Holidays

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please contact your instructor if you have a conflict due to religious observances.

See the campus policy regarding religious observances (http://www.colorado.edu/policies/observance-religious-holidays-and-absences-classes-andor-exams) for full details.

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation

The University of Colorado Boulder (CU Boulder) is committed to fostering a positive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct (including sexual assault, exploitation, harassment, dating or domestic violence, and stalking), discrimination, and harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or cureport@colorado.edu. Information about the OIEC, university policies, anonymous reporting (https://cuboulder.qualtrics.com/jfe/form/SV_0PnqVK4kkkJlZnf), and the campus resources can be found on the OIEC website (http://www.colorado.edu/institutionalequity/).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.