

Section 300:

ECCR 118, 9:15 - 10:50 MTWRF

Instructor: Stefan Wild- wilds@colorado.edu

Office Hours: ECOT 241, TBA

TA: Chao Jin- chao.jin@colorado.edu

Office Hours: MATH 205, TBA

Section 301:

ECCR 118, 12:45 - 2:20 MTWRF

Instructor: Mike Rother- michael.rother@colorado.edu

Office Hours: ECOT 338, TBA

TA: Erin Byrne- erin.byrne@colorado.edu

Office Hours: MATH 207, TBA

Text: Chapters 10–14 of Calculus and Analytic Geometry, 9th Ed., Thomas and Finney.**Course Web Page:** HW solutions, past exams, announcements, etc.: <http://amath.colorado.edu/courses/2350/>.**Course Goals:**

- (1) To learn the concepts and techniques of multi-variable calculus,
- (2) To develop problem-solving strategies fundamental to success in engineering and applied sciences,
- (3) To sharpen written communication skills through computer projects.

This course extends the ideas of basic calculus to functions of several variables. Topics include vectors and vector operations, curves in space, multi-variable functions, partial differentiation, multiple integrals, line integrals, Green's Theorem, Stokes's Theorem and the Divergence Theorem.

Blue Books: All students should submit 4 blank blue books with the first homework assignment on June 7.**Recitation:** Recitations taught by the course TA will be held weekly. The goal of the recitation is to provide a time in which specific homework and project questions can be addressed in more detail than time would allow in lecture. There will also be weekly quizzes to prepare students for exams.**Homework:** Homework will be assigned for each section of the book covered. Assignments will be due on Mondays and Wednesdays in lecture/recitation. No late homework will be accepted. You are encouraged to study with others in the class; however, the homework solution write-ups must be your own.**Exams:** There will be three in-class exams each covering approximately one-third of the course material. The final exam will be comprehensive with emphasis on the concluding material and will consist of a take-home and in-class portion. Dates for exams are listed below. No make up exams will be given and a missed exam will result in no credit. If a student knows in advance he/she must be absent on an exam day he/she should make arrangements with the instructor at least one week before the exam. Only in rare circumstances will early exams be considered. Calculators are not allowed on exams. A limited formula sheet will be provided to you on all exams.**Projects:** There will be two computer-based projects assigned in the course. The goal of these projects is:

- (1) To be able to integrate computation with problem solving skills,
- (2) To work effectively in small groups, and,
- (3) To communicate the findings in a report.

We will use the software packages Mathematica and Mathematical Visualization Toolkit. Students who are not already familiar with either of these are *strongly encouraged* to concurrently take Calculus III Lab Course, APPM 2450. Specifics regarding projects will be distributed in class and on the course web page.

Grades: Final course grades are based on a total of 600 points: 100 points each for the first two exams, 150 points for the final exam, 50 points each for two projects, 50 points for quizzes and 100 points for homework scores.**CU Policies:**

- *Special Accommodations:* Any student eligible for and needing academic adjustments or accommodations because of a disability or religious beliefs is requested to speak with me within the first week of class.
- *Academic Honesty:* Students may discuss homework problems with each other. However, all work turned in must be your own. Violation of the CU Student Honor Code (<http://www.colorado.edu/academics/honorcode/>) will result in a course grade of F.
- *Harassment-Free Environment:* Every member of the University of Colorado community has the right to conduct his or her academic and social life in an environment that is free from threats, danger, harassment, or other disruption. See <http://www.colorado.edu/sexualharassment/> for CU's policies and procedures.

Important Dates: Please be aware of the following important dates regarding Exams, Projects and Drop Deadlines. It is your responsibility to know when all deadlines are.

June 1	Classes Begin	July 5	Independence Day (No Class)
June 14	Deadline to Drop with tuition adjustment	July 7	Project 2 Due
June 16	Project 1 Due	July 12	Exam 2
June 21	Exam 1	July 23	Exam 3 (Last Day of Classes)
June 23	Deadline to Drop without petition		