

MATHEMATICS 121

Calculus for Science and Engineering I

Fall 2022

General Information

Description. Math 121 is the first semester of a four semester sequence covering single and multivariable calculus and differential equations. It is a 4 credit-hour course meeting 4 times per week. The prerequisites for Math 121 are three and one-half years of high school mathematics.

Text on Canvas.

Calculus Early Transcendentals Fourth Edition
Jon Rogawski / Colin Adams / Robert Franzosa
Freeman

Organization. Classes meet four times per week: Monday, Tuesday, Wednesday, and Friday. The tests will take place in class on Tuesdays, as scheduled in the Syllabus.

Syllabus. A daily Syllabus will be provided. The tests are scheduled in the Syllabus. *Check your calendar to make sure that you can take all Tests. If there is a conflict, let me know at once. (See the policy on Tests below.)*

Homework. Daily assignments are listed on the syllabus. These provide practice, help fix ideas introduced in class or in the text, and constitute a partial guide as to what to expect on Quizzes or Tests. They are not graded.

Quizzes. I will give short quizzes at the beginning of each class. Results of the quizzes, will count toward your final grade in the course. (See Grading Policy below.)

Tests. There will be three 60 minute Tests during the semester. Each will take place on a Tuesday as scheduled in the Syllabus. The Monday class before a Test will be devoted to review; no new material will be introduced. Tests are *cumulative*; that is, a given Test may contain material which appeared on an earlier Test. You must take all Tests at the required time unless specific alternative arrangements are made. (See MakeUps and Excuses below.)

Final Exam. The Final Examination will be on December 13, 2022 from 3:30-6:30PM. This will be a comprehensive examination covering the entire semester. *If you cannot take the Final Examination at the scheduled time, let me know as soon as possible, and have the Dean of Undergraduate Studies authorize an alternative arrangement.*

Extra Credit. There will be opportunities for extra credit during the semester. They will be announced in class. You can earn up to 8 points extra credit.

Calculators. Each student must have a calculator for use on Quizzes, Tests, and the Final Examination.

Computers. Course information will be posted on my web page:

<http://www.cwru.edu/artsci/math/butler/home.html>

and grades posted on Canvas: <https://canvas.case.edu/courses/32917>

Attendance and Class Participation. Active class participation is important. You are expected to come to class prepared for the day's discussion. Evidence supports the assertion that poor performance is strongly correlated with poor attendance.

Grading Policy. There will be three tests each worth 100 points. I will take your best test score and double it, giving 400 points for tests. The final exam is worth 200 points, and 200 points for quizzes. A total of 800 points. An attempt is made to set performance levels so that 90% is an A (720 points), 80% is a B (640 points), 70% is a C (560 points), 60% is a D (480 points) and less than 60% is failing. We do not always achieve this goal and sometimes adjustments are made. *This grading scheme is intended only as a rough numerical guide! Check with me if you have a question about your status.*

MakeUps, Excuses, etc. *If you anticipate the problem, let me know at once or leave a message on my voice mail at 368-2881.*

Group vs Individual Efforts You are encouraged to work together in small groups for study and homework. Taken in the right spirit, this can be very productive. However, work that you turn in under your name must be your own. This course rests on Case's commitment to integrity and academic honesty. To preserve an atmosphere of fairness for all students, cheating will not be tolerated. Suspected violations of the Academic Integrity Policy will be reported.

Office Hours I will announce regular office hours. Do not hesitate to make use of them. If the posted hours are not convenient, make a specific appointment. If you need help, please see me, I am here to help.