

**MATHEMATICS 122**  
**Calculus for Science and Engineering II**  
**Fall 2009**  
**General Information**

**Description.** Math 122 is the second 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 prerequisite for Math 122 is Math 121.

**Text.**

Calculus - Early Transcendentals Version - Seventh Edition  
Edwards & Penny  
Prentice Hall  
ISBN: 0-13-156989-9

**Organization.** Classes meet four times per week: Monday, Tuesday, Wednesday, and Friday. The Tests and Quizzes 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.)*

**Quizzes.** There will be eleven 20 minute quizzes during the semester. Each will take place in class on Tuesday as scheduled in the Syllabus. 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 Homework questions provide a rough guide to the level and difficulty of Test questions. 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 8, 2009 from 4:00PM to 7:00PM. 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.*

**Calculators.** Each student must have a calculator for use on Quizzes, Tests, and the Final Examination. It should be of the scientific type having, at least, the trigonometric functions, the inverse trigonometric functions, exponentials, natural logarithms. It should use either algebraic logic with parentheses or RPN. A calculator with graphing capabilities is *not* required. It is your responsibility to learn how to use your calculator. Ask for help if necessary.

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

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

or on blackboard: <http://blackboard.cwru.edu/>.

**Homework and Reading Assignments.** Homework problems will be assigned daily. Homework assignments 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.

**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. I will take your best 10 of the 11 quizzes for 200 points. The final exam is worth 200 points. There is total of 800 points for the course. 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 unsatisfactory. I do not always achieve this goal and sometimes adjustments are made.

**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 Cases commitment to integrity and academic honesty. To preserve an atmosphere of fairness for all students, cheating will not 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.