



MAT 230 Calculus II Fall 2010

Section : 57475

Where: MW CM453, 5:00-7:05pm

Instructor: Dr. Phil Clark

Office: CM428

Phone: (480) 425-6753

Office Hours: MW 3:30-5, T 1:30-3:30 and by appt

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Web Page: <http://www.drphilclark.com>

Textbooks: *Calculus (Single Variable)*, Fifth Edition by Hughes-Hallet, Gleason, McCallum, et al. Wiley & Sons, 2002. ISBN: 0-471-40826-3

Prerequisite: A grade of 'C' or better in MAT 220 Calculus I or the equivalent.

Course Competencies:

1. Evaluate indefinite, definite and improper integrals using various algebraic, trigonometric and numerical techniques.
2. Solve applied problems taken from the sciences using integration.
3. Analyze curves in the plane described using parametric and polar equations.
4. Define, classify, and analyze conic sections.
5. Determine the convergence or divergence of sequences, series of constants, and power series.
6. Compute polynomial approximation and power series representation of elementary functions using derivatives and integrals.
7. Compare alternate solution strategies, including technology.
8. Communicate process and results in written and verbal formats.
9. Justify and interpret solutions to application problems.

Homework: Homework problems will be assigned for each section we cover. You are expected to complete each problem by the given due date. There will be homework quizzes given each class which will be taken directly from the homework. You will be allowed to use your homework to complete the quiz so it is to your benefit to have the problems completed on time.

Computer Labs: There will be computer lab assignments. Students will be expected to complete all lab assignments. These labs will be graded. Labs are to be printed out showing all relevant code and turned in on time. No late labs will be accepted.

Gateway Exam: In order to pass Calculus II, students must successfully complete the Gateway Competency Exam. Students receive 3 attempts to pass this exam. The first will be given in class. Subsequent attempts (if needed) will be taken in the testing center on dates to be determined.

Computer Software: The primary computer resource will be the computer algebra system *Maple* which can be accessed via mysc. Check the website for information on how to do this.

Graphing Calculator: A graphing calculator is required for this course. The suggested calculators include the TI-83 or TI-83 plus and the Casio CFX-9850GB plus. NOTE: Calculators with QWERTY keyboards or those which do symbolic algebra such as the TI-92s, TI-89s, Casio FX2 or 9970G's cannot be used in class or during an exam. You are responsible for knowing how your calculator works!

Point Distribution	
Homework	20%
Computer Labs	10%
Exams	50%
Final Exam	20%

Grading Scale:

- A (90% and above)
- B (80%–89.99%)
- C (70%–79.99%)
- D (60%–69.99%)
- E (below 60%) .

Attendance: Attendance will not be required but success in class has been shown to have a direct link with showing up. If attendance slips I will notice so please come to class.

Makeup Tests and Quizzes: Will be given at the discretion of the instructor and only in the case of verified medical or other emergency. The instructor must be notified before the exam is given. Email or call

Honor Policy: The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities.

Math/Science Center: The Math/Science Center is available for all levels of mathematics. Students can working individually or in groups and receive help when needed. Location: CM 441A (northeast corner of the CM building)

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Hours: Monday - Thursday 8:00 AM - 7:30 PM; Friday 8:00 AM - 2:00 PM; Saturday 10:00 AM - 2:00 PM

Withdrawal Information: <http://plone.scottsdalecc.edu/admissions/dates-and-deadlines>

Positive Learning Environment: Commitment between students and teacher. Details on the website.

Disability Resources: Students with disabilities who believe that they may need accommodations in this class are encouraged to contact Disability Resources & Services office, Building SC-144, 480-423-6517.

Disclaimer: The instructor reserves the right to modify this syllabus to better meet the needs of the class.

SCC General Education “WOVeN” Statement: General Education enhances students’ abilities to critically analyze information and ideas and effectively communicate in Written, Oral, Visual, and Numerical form. General Education is WOVeN through the curriculum at Scottsdale Community College.