

TALLAHASSEE COMMUNITY COLLEGE
SYLLABUS

MAC 2311, Section 001, Ref # 53221, Term: Fall, 2007

5 Semester Hours Credit

CALCULUS WITH ANALYTIC GEOMETRY I

CLASSROOM: SM 132, M-F 1:25 - 2:15 p.m.

Instructor: Dr. R. Webster

Office: SM 231

Office Hours: MWF: 9:00 - 11:15 a.m., 2:15 - 3 p.m.; TR: 10:00
a.m.- 12:15 p.m., 2:15 - 3 p.m.

Office Phone: (850) 201-8123

E-mail: websterr@tcc.fl.edu

TEXTBOOK: Calculus, Early Transcendentals, 11th ed., Weir, Hass,
and Giordano, Addison Wesley Publishing Company, 2008.

PREREQUISITE: In order to remain in this course, the student must
have met one of the following four criteria:

- i) scored appropriately on the TCC Mathematics placement exam;
- ii) passed the TCC courses MAC2140 and MAC2114 with a grade of "C" or better;
- iii) passed the TCC course MAC2147 with a grade of "C" or better; or
- iii) passed courses equivalent to MAC2140 and MAC2114, or MAC2147 at another college or university with a grade of "C" or better.

COURSE DESCRIPTION: Topics in this course include: limits of functions and continuity; the derivative of a function; techniques of differentiation of algebraic and trigonometric functions; the Mean Value Theorem; applications of the derivative (relative and absolute extrema, velocity and acceleration, related rates, curve sketching, differentials); indefinite and definite integrals; the Fundamental Theorem of Calculus; integration by substitution; approximate integration; applications of the definite integral (area, volume, work, arc length, and area of a surface of revolution).

COURSE LEVEL: This course is intended for those students who plan to major in fields such as pure or applied mathematics, physics, chemistry, statistics, math education, science education, or engineering.

PERFORMANCE OBJECTIVES: A complete list of performance objectives for this course is available in the Science/Math Division office.

ACADEMIC ALERT: FLORIDA LAW! The same college-level course may be taken only **TWICE** at the in-state rate. If you enroll again, you must pay the out-of-state tuition rate. For the purpose of

implementing this law, the count began in Fall 97. A "grade" of W or AW counts as a "take". Any student whose name is on the official roll after the date to receive a refund is considered enrolled. On the third attempt, not only do you pay out-of-state fees, but you may not withdraw from the course. Fourth attempts are allowed only through an academic appeal.

CHAPTERS COVERED: Chapters 2 - 6

ATTENDANCE POLICY: Roll will be taken. If you miss a class, IT IS YOUR RESPONSIBILITY TO FIND OUT WHAT WAS COVERED IN CLASS -- and you are STILL RESPONSIBLE for turning in all assigned work on time. DO NOT assume that you will be withdrawn if you stop attending class. It is your responsibility to formally withdraw yourself if you stop attending. The last day that you can withdraw yourself is November 6, 2007.

TARDINESS: Arriving to class late or leaving early (without prior permission) will not be tolerated. If you are late more than five times without good reason, I will withdraw you from this class.

HOMEWORK: Homework may be collected (unannounced) and graded in lieu of a quiz grade. Thus, bring your homework with you to all class meetings, including on test days! Homework must be done in order to succeed in this class! If you are unwilling or unable to devote at least two homework hours outside class for every hour inside class, you will likely not realize your potential.

QUIZZES: Frequent unannounced quizzes will be given (take-home or in-class). These will normally be worth 10 points each.

TESTS: There will be five unit tests during the semester, each worth 100 points. The tentative dates are shown on the Pacing Schedule. The tests will be a combination of multiple-choice and free-response questions. The cumulative test grade (denoted "U" below) will be the mean (arithmetic average) of the five tests.

FINAL EXAM: The Final Exam will be cumulative. It will be given on Wednesday, December 12, 2007. It is your responsibility to find out the exact time and place for the Final and to be there on time. THERE WILL BE NO EARLY EXAM, NO LATE EXAM, AND NO MAKE-UP EXAM. A photo ID card is required.

MAKE-UP POLICY AND DUE-DATES: THERE WILL BE NO MAKE-UPS GIVEN FOR HOMEWORK, QUIZZES, EXTRA CREDIT, TESTS, OR EXAMS. All work is due at a specified time, and late work will not be accepted. If you must miss any class, it is common courtesy to notify the instructor. If you must miss a test, please notify me before the event, if possible, or as soon as possible after the fact. My office phone number is 201-8123.

USE PENCIL: On all written work in this course, please use pencil and not ink. On all quizzes, homework, extra credit, and tests, points will be deducted for using ink.

GRADING: The following grading procedure is used for this course:

$G = \text{MAX}(G1, G2)$ where
 $G1 = (5*U + 1*HQ + 2*E)/8,$
 $G2 = (10*U + 2*HQ + 3*E)/15,$
and
G = Course Grade U = Unit Test Ave
HQ = Homework & Quiz Ave E = Final Exam Grade

The Grading Scale is:
90 -- 100 A; 80 -- 89 B; 70 -- 79 C; 60 -- 69 D; 0 -- 59 F

GATE EXAM: In order to pass this course, you must pass a 20-question test over basic derivatives. A passing score is 90% or better. Students who fail the Gate Exam must continue to re-take other versions of the exam on their own time until they pass with a score of 90% or better.

OUTSIDE HELP: I will be more than happy to help you during my office hours (see first page above). Just come to my office in SM 231. Please organize your questions in advance so that we can use our time efficiently. Also, TCC has a Math Learning Center in DH 225 where tutors are on duty many hours of the day. This is free to all students with validated TCC ID cards. Other resources for help include: videos - available for viewing at the media center, tutorial software - at the Math Center and Open Access Computing Centers, and a WEB site.

CALCULATORS: YOU ARE REQUIRED TO HAVE A GRAPHING CALCULATOR FOR THIS COURSE. A TI-83Plus with an overhead projector panel will be used for in-class calculator examples. I will not take class time to teach other types of calculators. Calculators such as the TI-89 and TI-92 are not allowed.

CELLULAR PHONES AND PAGERS: All cell phones and pagers must be turned completely off before class begins. If any cell phone, pager, or any other electronic device makes any noise during class, I will ask the owner to leave class immediately for the day.

STUDENT CONDUCT IN THE CLASSROOM: Please refer to the TCC Student Conduct Code. I will treat all students with respect and dignity, and I expect the same in return. I will not tolerate disrespectful behavior toward myself or other students such as sleeping, audible yawning, disruptive talking, profane language, cell phone usage, clock watching, etc. Also note that there will be no smoking, eating or drinking in the classroom.