Syllabus: Math 5B - Analytic Geometry and Calculus II  
Fall 2012, Section 77289 (MTWTh)

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Prerequisites
Calculation Two presents the integral calculus of algebraic and transcendental functions of one variable with applications. The course is designed for majors in mathematics, engineering and physical sciences. The prerequisite for this course is a "C" or better in Math 5A, Analytic Geometry and Calculus I, or the equivalent. This course requires a minimum of 15 hours of work per week.

Learner Outcomes
As a student in this class, you will:

1. Formulate and evaluate definite integrals, especially in finding areas, volumes, arc lengths and surface areas and applications from physics including work and hydrostatic pressure.
2. Evaluate definite and indefinite integrals by employing various techniques of integration including integration by parts, trigonometric substitution and partial fractions.
3. Evaluate infinite series to decide on convergence, including absolute convergence and the radius of convergence, and generate infinite series, including Taylor series, to estimate function values and find derivatives and antiderivatives.

Course Materials
• Textbook: *Calculus Early Transcendentals* by James Stewart (7th ed.) (I have also provided HW assignments for the 6th edition.)
• A scientific calculator, not a graphing calculator. You may use a graphing calculator in class if you like, but not on exams.

Resources and Accommodations
I encourage students with disabilities, including “invisible” disabilities to explain their needs and appropriate accommodations to me. Please bring a verification of your disability from the Learning Skills or DSPS offices along with a counselor’s recommendations.

The Math Learning Center (Room 1074), the Watsonville ILC (Room 4410), and MESA center (Room 714), are locations for drop-in tutoring. Please also remember that I am always willing to help. I am available during office hours to discuss any aspect of the course, course material, or your educational goals. Your classmates are also excellent resources; form study groups early in the semester. Chances are that you will need help of outside resources at some point during the semester … make sure you know what resources are available to you.

Student Responsibilities
Your success strongly depends on your organization, motivation, determination and commitment to this course. All of these attributes will allow you to prioritize your schedule so that you have the amount of time necessary to complete this course. It is your responsibility to keep up with the material even if you miss class. If you miss a class, it is your responsibility to get the notes from someone else in this class. Also, discuss the notes with others, and then come ask me questions about the material. **On time daily attendance is required for success in this course.**

Note: No IPODS or MP3 players and all cell phones will be on vibrate or turned off during class.

Attendance & Tardiness
I will drop students for lack of attendance during the first two days of the semester to make room for students on the waiting list. Any student with a total of four absences will be dropped from the course. Note that two instances of tardiness results in one absence, and also any instance of leaving class early will be treated as a tardy. A person is tardy to class if he/she is not in his/her chair when the class starts at 8:00 AM. Please come see me if you have any questions.

Please feel free to come to my office hours for help. I am happy to make appointments to work with you at any time I am not teaching a class. I am often available after 12:00 noon on Fridays.
Assessments/Grade Components

• Homework, Quizzes/Participation: 100 points
Homework will be assigned every class period and collected weekly. You must do and show all your work for every problem assigned to receive full credit on the homework. Many of the homework problems are likely to appear on the exams, the final exam, and most definitely on the quizzes. If you have any trouble with any of the homework problems, you are encouraged to come to my office hours or seek help at the MLC, at the Watsonville ILC or MESA (see Resources and Accommodations above). I also strongly encourage you to keep up with homework assignments, as this is the best way to learn math.

Everything we do in this course builds upon the previous concepts. Getting behind is always disastrous, but even more so in this mathematics course. Late homework is not accepted. Homework will be graded on both the number of problems attempted and the number of complete solutions—an assignment with just the answers to the problems will not receive full credit.

I will give a few quizzes and many little assignments for you to do at home. They provide a touchstone to evolving understanding by measuring student progress and instructor expectation. There will be special assignments that will be due and these points will go into the “homework, quiz/participation” pile.

As far as participation goes, I expect everyone to contribute to class. It goes without saying that if you are not in class; you will not be able to participate.

• Three Exams: 100 points each, Cumulative Final: 150 points
There are no make-up exams. There are no practice exams. I will post “review” sheets on our course website. The final will have “comprehensive” questions from the entire course. Most of the exams will have an in-class and a take-home portion. For the in-class portion of the exams, you may use a scientific calculator but not a graphing calculator. No cell phones allowed during an exam.

Course Grade
Your grade is computed as a straight average: the total number of points earned divided by the total points possible. I do not curve grades. To go on to the next course in the math sequence you must earn a grade of C or higher in this course. This course is not available on a Pass/No Pass basis. Please keep all graded papers so you can verify grades in the event of a bookkeeping error on my part.

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Academic Integrity
Cheating is a serious offense and may be punished by a warning, administrative probation, suspension, and expulsion from Cabrillo College. Additionally, the student is subject to any academic penalty imposed by their instructor. Any person caught cheating will receive a grade of zero for the exam/quiz/assignment; a second offense will result in a grade of F for the course. Cheating is an act of obtaining, or attempting to obtain, credit for academic work through the use of dishonest, deceptive, or fraudulent means. During examinations, I expect all of you to put away all your notes, books, etc. I expect there to be no talking, and no wandering eyes. The student is responsible to make it abundantly clear to me that he or she is not cheating.

Important Dates
September 8 . . . . . . ~Deadline to add or register for a full-term course
September 9 . . . . . . ~Deadline to drop a full-term course and receive a reversal of charges
November 17 . . . . . . ~Deadline to withdraw from full-term course
December 12 . . . . . . ~Final Exam, Monday 12/12, from 7:00 am to 9:50 am