Math 150: Calculus I, Spring 2009

Instructor: Brian Sittinger
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Office Hours: MW 3:15 PM-4:15 PM and by appointment
Class Times: TuTh 2:00 PM-3:50 PM
Class Location: Bell Tower 1704

Prerequisites: Passing scores on the Calculus Placement Exam or Math 105.


Course Description from the Course Catalog: A course in analytic geometry and calculus. Topics include: elementary and transcendental functions and their properties, limits, derivatives, integrals, and mathematical modelling.

Grading: Grades will be determined as follows:

- Attendance and Homework (25%)
- Two Exams (25% each)
- Final Exam (25%)

Attendance: Since we meet only twice a week, attendance is essential. After three absences, you will lose one percentage point from your attendance grade for each subsequent absence. There will be quizzes based on material covered in previous lectures or homework. Although these will be unannounced, they will be treated as a means to gauge your progress in learning the material, as well as a chance to interact with your classmates (and instructor) in the classroom. In other words, you will have no reason to “fear” the quizzes!
Homework: I will assign homework daily to be turned in on every Tuesday (unless otherwise stated) at the beginning of lecture. Make sure that your presentations are well-organised. If you use more than one sheet of paper, please write your name at the top of each sheet, and be sure to staple them all together. This will make my job to grade them much easier.

Exams: The two exams will be given in class around the sixth and twelfth weeks of lecture. The final exam will take place on Thursday 14 May at 1 PM. These exams will be done without calculators (if this conjures fears, don’t panic; your instructor will make sure that these exams are devoid of messy arithmetic!) or notes. Unless you have a genuine doctor’s note, you have to take the exams when they are given.

Technological Information and Math 399: We will use MAPLE software and/or graphing calculators during lecture and lab. As you will be using this in some of your homework, please sign up for Math 399 Section 5. Further instructions for will be given in the lab.

Extra Help: In addition to myself and your fellow classmates, please check out the Learning Resource Center (in the Broome Library). This center’s math tutors will be happy to help you!

General Education Information: This course satisfies a ‘B3’ General Education requirement. As a reminder, General Education courses are intended:

- To foster an ability to think clearly and logically;
- To prepare students to find and critically examine information;
- To communicate at an appropriate level in both oral and written forms;
- To acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning;
- To cultivate through the study of philosophy, literature, languages, and the arts-intellect, imagination, sensibility, and sensitivity;
- To deal with human social, political, and economic institutions and their historical backgrounds, with human behavior and the principles of social interaction; and
• To integrate their knowledge by forming an interdisciplinary and insightful approach to learning.

**Learning Outcomes:** Through this course, students will be able to

- Design mathematical models and work with functions
- Compute limits, derivatives and antiderivatives and apply them in context
- Analyze graphs of functions and use them to solve problems
- Use modern software to solve problems
- Compute maxima and minima, and apply other optimization techniques
- Explain, using proper terminology, ideas of calculus and solve computational problems
- Express ideas of Calculus in oral and written form

**Academic Honesty:** Cheating and plagiarism will not be tolerated in this class. For information on the University’s policy, please read the University Catalog (“Policies and Regulations” section).

**Disability Statement:** Cal State Channel Islands is committed to equal educational opportunities for qualified students with disabilities in compliance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. The mission of Disability Accommodation Services is to assist students with disabilities to realize their academic and personal potential. Students with physical, learning, or other disabilities are encouraged to contact the Disability Accommodation Services office at (805) 437-8510 for personal assistance and accommodations.

**Disclaimer Statement:** Information contained within this syllabus, other than that mandated by the University, may be subject to change with advance notice, as deemed appropriate by the instructor.