California State University, San Bernardino

Math 211-05, Basic Concepts of Calculus

Course and Instructor Information

Instructor: Dr. Cory Johnson
Office: JB 322
Email: cprevite@csusb.edu
Phone: (909) 387-5423
Office Hours: Tuesday and Thursday 1 – 2:30pm, Wednesday 10 – 11am, or by appointment
Class Days/Time: Tuesday, Thursday 8:00 – 9:50am
Classroom: JB 113
Textbook: Calculus of a Single Variable, 10th edition, by Larson and Edwards
Prerequisites: Satisfactory score on Entry Level Mathematics exam or passage of Math 120

Course Description

In this course, we will learn about limits and continuity, differentiation of functions in one variable (including trigonometric functions) and antiderivatives with applications. This corresponds to chapters 1 – 3 and section 4.1 in the textbook.

Student Learning Outcomes (SLOs)

Upon successful completion of this course:

1.2 Students will make connections between mathematical ideas verbally, numerically, analytically, visually, and graphically.

2.1 Students will correctly apply mathematical theorems, properties and definitions.

2.2 Students will calculate efficiently, flexibly, and with appropriate accuracy.

3.3 Students will explain and justify solutions using a variety of representations.

3.5 Students will be able to evaluate reasonableness of proposed results using estimation and context.

A complete list of SLOs and department student learning goals can be found on the Math Department webpage: http://www.math.csusb.edu/BA_SLO_2013.html

Class Activities

Class will consist of lectures and use of an online voting system. You are expected to actively participate in every class. The best way to prepare for class is to complete homework and to skim the sections from the textbook that will be covered that day.
Homework
Homework will be assigned for each section from the textbook. Homework assignments will be randomly collected and select problems will be graded throughout the quarter. Therefore, it is in your best interest to work through every homework problem. LATE HOMEWORK WILL NOT BE ACCEPTED.

Quizzes
There will be a total of 7 quizzes to check your understanding of the material. Your highest 5 quiz scores will determine your quiz grade. The purpose of dropping two quiz scores is to compensate for any unforeseen circumstances such as illness and family emergencies, as well as scheduled absences. NO MAKEUP QUIZZES WILL BE GIVEN. Quiz questions will come from homework problems, examples from lecture, and questions from the online voting system.

Writing Assignment
There will be a short writing assignment due the last day of class, Thursday, March 19. Possible topics include a biography of Newton or Leibniz, or a brief history of the development of calculus. Details will be given in class. See section on Plagiarism and Cheating.

Exams
There will be two midterm exams and a final exam. The first midterm will be on Tuesday, February 3. The second midterm will be on Thursday, February 26. The comprehensive final exam will be given on Tuesday, March 24 at 8am. The final exam score will replace your lowest midterm score if it is to your advantage. NO MAKEUP EXAMS WILL BE GIVEN.

Calculators
Calculators may be used on quizzes and exams. Any devices with communication capabilities (such as cell phone, ipod, etc.) are strictly forbidden. Use of such a device will result in a score of 0 and will be treated as a cheating incident. Please see me if you have a question about your calculator.

Grading Policy
Course work will be weighted as follows:

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<th>Component</th>
<th>Weight</th>
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<tr>
<td>Writing Assignment</td>
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<td>Homework</td>
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<td>Two Midterms</td>
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<td>Final Exam</td>
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<td>Quizzes</td>
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Grading Scale:

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Administrative Drop
Students who fail to attend TWO consecutive class meetings in the first three weeks of the quarter will be dropped. Please review the add/drop policy in the CSUSB Bulletin.

Students with Disabilities
If you are in need to an accommodation for a disability in order to participate in this class, please see the instructor and contact Services to Students with Disabilities at (909) 537-5238

Plagiarism and Cheating
Students are expected to be familiar with the University’s Policy on cheating and plagiarism. Please review the CSUSB Bulletin. Instances of academic dishonesty WILL NOT be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified.

Important Dates
Monday, January 19 – Martin Luther King Holiday
Monday, February 2 – Census Day, Last day to drop without record
Tuesday, February 3 – Midterm 1
Thursday, February 26 – Midterm 2
Thursday, March 19 – Writing Assignment due
Tuesday, March 24 – Final Exam