California State University, San Bernardino
Department of Mathematics
Math 355, Analysis & Proof, Section 01, Winter 2016

Course and Instructor Information

Instructor: Dr. Cory Johnson
Office location: JB 322
Telephone: (909) 537 - 5423
Email: cprevite@csusb.edu
Office hours: Wednesday 10:30am – 12:00pm, Thursday 1:00 – 2:30pm
or by appointment
Class Days/Time: Monday, Wednesday, Friday 9:20 – 10:30 am
Classroom: JB 385
Prerequisite: Math 213

Faculty Web Page

Course Information, assignments, announcements, and grades can all be found on the Math 355 Section 01 course page on Blackboard.

Course Description

Introduction to ideas and techniques of proof with an emphasis on analysis. Topics will be chosen from: logic, set theory, functions, cardinality, and analysis. This corresponds to select sections from chapters 1 – 4 in the textbook.

Student Learning Outcomes (SLOs)

Upon successful completion of this course:

SLO 1.1 Students will demonstrate an understanding and apply fundamental concepts, operations, and relations.
SLO 2.1 Students will correctly apply mathematical theorems, properties, and definitions.
SLO 3.6 Students will be able to critique mathematical reasoning, both correct and flawed.
SLO 5.1 Students will understand correct mathematical proofs.

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

Required Textbook

Class Activities
Class will consist of lectures, group work, and hands-on activities that may involve worksheets which you finish at home. 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. If you are confused about a concept or struggling to keep pace, please ask questions, come to office hours, and/or utilize the Math Department tutors.

Homework
Homework problems will be collected weekly. Homework must be written neatly in final draft form and stapled. LATE HOMEWORK WILL NOT BE ACCEPTED. If you are absent when homework is collected, you must make arrangements with me PRIOR to class. Students found to have plagiarized solutions will earn a score of 0. Please see section on Plagiarism and Cheating.

Quizzes
There will be five small quizzes. Your highest four quiz scores will determine your quiz grade. The purpose of dropping one quiz score 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 primarily be based on definitions, theorems, and small examples from homework and class lectures.

Exams
There will be two midterm exams tentatively scheduled for Friday, February 5 and Friday, February 26. These dates are subject to change with adequate notice. NO MAKEUP EXAMS WILL BE GIVEN. The final exam will be cumulative and will be on Friday, March 25, from 8 – 9:50am in JB 385.

Grading Policy
Course work will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
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<tr>
<td>Quizzes</td>
<td>10%</td>
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<tr>
<td>Two Midterms</td>
<td>50%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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Grading Scale:
A plus/minus will be amended to scores at the far ends of the ranges.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 – 100%</td>
<td>A</td>
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<tr>
<td>80 – 89%</td>
<td>B</td>
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<tr>
<td>70 – 79%</td>
<td>C</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>D</td>
</tr>
<tr>
<td>0 – 59%</td>
<td>F</td>
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University Policies

**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 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. Assignments are to be completed by the individual student unless otherwise specified.

**Professional Conduct**
You are expected to conduct yourself professionally. This includes (but is not limited to) arriving to class on time, putting away any electronic devices, staying on task, being discrete about eating in class, and being respectful of your classmates.

**Dropping and Adding**
Students who fail to attend TWO consecutive class meetings in the first three weeks of the quarter will be dropped. You are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. found in the CSUSB Bulletin.

**Support for Students with Disabilities**
If you are in need of an accommodation for a disability in order to participate in this class, please contact Services to Students with Disabilities at (909)537-5238.

If you require assistance in the event of an emergency, you are advised to establish a buddy system with a buddy and an alternate buddy in the class. Individuals with disabilities should prepare for an emergency ahead of time by instructing a classmate and the instructor.

**Important Dates**
Monday, January 18 – Martin Luther King Holiday, NO CLASS
Friday, January 22 – Quiz 1
Friday, January 29 – Quiz 2
Monday, February 1 – Census Day, last day to drop without record
Friday, February 5 – Midterm Exam 1
Friday, February 19 – Quiz 3
Friday, February 26 – Midterm Exam 2
Friday, March 11 – Quiz 4
Friday, March 18 – Quiz 5
Friday, March 25 – Final Exam, from 8 – 9:50am, in JB 385