

## **Math 512A. Concepts of Analysis**

**Fall 2007. Course No. 17636**

**Alberto Candel**

SN 430

Phone: 677-6512 (office), 677-2721 (math office)

Email: [alberto.candel@csun.edu](mailto:alberto.candel@csun.edu)

**Class Meets:** Mondays and Wednesdays, 5:30–6:45 pm, JR 217

**Office Hours:** Mondays and Wednesdays 3:00–3:50 pm, and by appointment.

**Course Web Page:** <http://www.csun.edu/~ac53971/courses/math512A/>

**Textbook:** “Real Analysis and Applications” by F Morgan

**About this class:** This course is part of the curriculum of the Mathematics for Secondary Teaching Program. Its main goal is to give a rigorous introduction to real analysis. The topics to be covered are standard: real numbers; countable and uncountable sets; sequences and series; functions; continuity, differentiability and integration; sequences and series of functions; uniform convergence; and more.

We will also emphasize that students learn how to express mathematical ideas, and especially geometric, rigorously both orally and in written form.

**Grading Policy.** Your grade for this class will be based on homework and exams.

**Homework:** There will be weekly homework. Late homework is accepted; however, it will be penalized at a rate of 20% per day. There will also be a penalty for not turning in homework.

**Exams:** There will be two midterms and a final exam. These exams will be on the following dates

- First Midterm: Monday, October 8
- Second Midterm: Monday, November 19
- Final Exam: Monday, December 17, 5:30 pm – 7:30 pm

**Grades:** Your final score (out of 100 points) will be determined as follows

- 25% Homework
- 25% Each of the 2 midterms
- 25% Final Exam

and your **final grade** will be determined as follows:

- A if total score is 85 points or more,
- B if total score is between 70 and 85 points,
- C if total score is between 55 and 70 points,
- D if total score is between 40 and 55 points,
- F if total score is below 40 points.

I will use +/- when assigning your final grade.

**Cooperation:** You are encouraged to collaborate with others in working on anything in this course, but what you put down in your assignments must be your own. If it is something that has emerged from work with other people, write down their names. Ideas and material that has come out from other people or other sources should be given proper attribution or reference.

**Attendance and make-ups:** Attendance for this class is mandatory. Any absence must be arranged in advance or justified with written notification.

There will be no make-up exams, except in cases of extreme emergencies or exceptional circumstances. You must notify me **before the exam** if you are going to miss it, and you must provide documentation justifying your request for a make-up. If the documentation is satisfactory, I **may** give the make-up. A make-up exam consists of a written part and an oral part.

**Important:** CSUN email accounts are the official means of communication of the California State University, Northridge. It is your responsibility as a student to activate and monitor your university email account. If you prefer an alternate email address, you can have your CSUN email forwarded to it.