AMS 3: Precalculus.

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Required Text

There’s a customized version of this book for UCSC students, you might want to check it out at the bookstore because it’s cheaper.  
There will be a book on reserve at the Science Library.

Lectures

Social Sciences 2, room 071. Mondays, Wednesdays and Fridays from 11:00am to 12:10pm.

Discussion sections

Discussion section 01A to be held at Jack Baskin Engr, room 372 on Tuesdays, from 12:00-1:10pm.  
Discussion section 01B to be held at Jack Baskin Engr, room 372 on Wednesdays, from 8:00-9:10am.  
Discussion section 01A to be held at Jack Baskin Engr, room 372 on Thursdays, from 7:30-8:40pm.  
Sections are not optional. They are part of the requirements to pass this course and attending them is paramount to getting a satisfactory result.  
There will be a quiz during all sections. This is a way to reward the students who take the time to come to sections and, at the same time, to allow them to see how they are doing in class.

Office hours

Tentative schedule. Please get in touch with us in case you cannot make any of the times below. Office hours are an important part of the learning process, and we want to make sure that everyone has access to at least one of the office hours sessions per week.  
Bruno: Fridays from 1.00pm to 2.00pm at Jack Baskin building, room #141 or Jack’s Lounge (I’m usually in one or the other).  
Teaching Assistant: Fridays, 2-3pm at Baskin room 160.
Tutoring

We are working with the MSI (Modified Supplemental Instruction) people to get free tutoring for this class. More news during coming lectures. Their web site is at: mep.soe.ucsc.edu/tutoring/Free.html.

More tutoring services can be found at www.cse.ucsc.edu/advising/undergraduate/current/tutor.html

Quizzes

One per section, they will be very easy and short; the intention is to both reward the students for attending section and also to give everyone an idea on how well they are doing on a very basic level.

Quizzes will account for 10% of the final grade. You will be allowed to drop the lowest score.

Any questions regarding quizzes’s scores or grading should be addressed to the TA.

Homework

There will be one set of homework problems per week. They will always be due on Fridays by 5:00pm. There is a drop box at one of the entrances to Jack’s Lounge.

Whenever possible, homework solutions will be posted in the glass showcase at Jack’s Lounge shortly after the deadline. The scores will be posted on the course’s web site.

Graded homework will be given back in sections.

The average of homework will account for 10% of the final grade. You will be allowed to drop the lowest score.

Any questions regarding homework’s scores or grading should be addressed to the TA.

List of priorities when working on homework:

1. Understanding each problem. This includes checking the corrections and solutions when you get your homework back. If there’s anything you don’t understand, talk to us about it.

2. Try to complete as much of the homework list as early as possible. If you can’t do it before the deadline to hand the problems for grading, just give us whatever you did. But your work is not finished then! Finish all the problems, even if after the deadline.

3. If you have difficulties in a particular set of problems, choose extra problems and work on them together with me, the TA or your favorite tutor.

4. By the time you get to the exam, make sure you understand all the problems in the homework list.

Midterm

Will take place on Monday, February 5th, in class, and will cover all that was taught just before the date of the exam.
This is a multiple choice exam, so bring a scantron Parscore form nr. f-1712 (you can buy them at the bookstore). The only other material you are allowed in the exam is a nr.2 pencil and an eraser.

The exam’s score will contribute 30% to the final grade.

Official solutions will be posted in the glass case at Jack’s lounge at Jack Baskin’s building.

The final will include problems of the same type as the ones in the midterm (ie. the final will include all what was taught in the quarter), so make sure you understand all the mistakes you (eventually) made in the midterm, so that you don’t repeat them in the final!

Any questions about the scores on the midterm should be addressed to Bruno.

Final exam

It will take place on Tuesday, March 20th, from 8:00-11:00am at Social Sciences 2, room 071 (re-check at http://reg.ucsc.edu/soc/2070/sched.htm#Winter2007).

The exam will cover all that was taught during the quarter.

This is a multiple choice exam, so bring a scantron Parscore form nr. f-1712 (you can buy them at the bookstore). The only other material you are allowed in the exam is a nr.2 pencil and an eraser.

The exam’s score will account for 50% of the final grade, but you will need a minimum of 66% in the this exam to pass the class.

Any questions about the scores on the final should be addressed to Bruno.

Official solutions will be posted in the glass case at Jack’s lounge at Jack Baskin’s building.

Course’s web page

Address: http://www.soe.ucsc.edu/classes/ams003/Winter07/

The web page will contain the list of homework due, score list (updated weekly) and most likely some notes from the lectures. It will also contain any announcements related to the course and all the information related to it.

Protected material can be accessed by using the following information,

username: ams003 password: burao49

Class Rules

No type of collaboration between students is allowed in quizzes, the midterm or the final exam. You can work together on homework, but 'carbon copies’ are not acceptable.

Always substantiate any answer you give to any question in this class. Even ”true” or false” answers have to be justified, either with words or calculations.

How to improve your chances to get a good result in this course

Take as much advantage as possible of the office hours. They are a wonderful opportunity to get an almost one-to-one tutoring. I will be able to pay closer attention to you individually
and therefore help you more efficiently.

Unfortunately our education system still expects the students to arrive at this school with good strategies for working/studying, and the sad reality is that many times they don’t. Although we are very well aware that each person is an individual and running the serious risk of sounding paternalistic, allow us to give you a few ideas on how to improve your studying of mathematics.

- **Read the book.** Many people give up after a first read of the book, giving in to frustration. Please keep in mind that no one expects you to understand everything on a first read. No one can do that. Most typically a student needs to read the material two to four times until he/she starts feeling comfortable with the new concepts.

- **Study the examples.** These are the ”doors” that lead to the solution of most of the exercises. It is almost pointless to tackle homeworks and quizzes if one doesn’t understand the examples. The usual procedure should be to re-read the theory in case you have difficulties with a specific example.

- **Work out the problems given in the book.** Feel free to do as many as you feel like. Start with the easy ones first. If you have problems, go back to the examples, maybe you just skipped something important.

- **Organized work.** Be organized and write down your calculations in a clean and ordered way, problem solving is much simpler if one has organized, clear calculations. Usually ”messy writing” \(\implies\) ”messy thinking”.

- **Make full use of lectures, sections, office hours and labs.** Don’t be afraid to make questions. The more you interact with the teachers the more likely you will be able to absorb more knowledge. Come to us as many times as are necessary!

You can and you **should** come to me for help during any of the stages described above, but you’ll be able to take more from our meetings if you have gone through the first items in this list on your own at least once.

I look at this course as a team work and the main goal of all of us is to help you learn mathematics and help you have a good final grade.

I welcome you to this course and we hope that by the end of it you feel that you have learned something useful and at the same time had some fun doing it!