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
Jack Baskin Engineering room 165. Tuesdays and Thursdays from 5:00pm to 8:30pm (don’t worry there’ll be plenty of breaks!).

Discussion sections
There are no independent sections for this course; all practice exercises will be gone over during 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: Thursdays from 4:00pm to 5:00pm at Jack Baskin building, room #141 or Jack’s Lounge (Bruno’s usually in one or the other).

Homework
There’s a list of homework problems which we strongly recommend you work over.
List of priorities when working on homework:
1. The homework list is to be looked as a mini-test which will give the student some feedback on how he/she is doing. Most students will need to do extra problems (ie. outside of the list) for practice.
2. Understanding each problem. If there’s anything you don’t understand, talk to us about it, don’t let any problem go by!

3. Try to complete as much of the homework list as early as possible.

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

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

Midterm

The midterm will take place on Tuesday, July 7th, in class, and will cover all that was taught just before the date of the exam (emphasis on problems from Appendix B, section 1.1 through 2.4).

The exam’s score will contribute 40% to the final grade.

These are multiple choice exams, 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. **No calculators.**

The final will include problems of the same type as the ones in the midterm (i.e. 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 midterms should be addressed to Bruno.

Final exam

It will take place on Thursday, July 23rd, in class.

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. **No calculators.**

The exam’s score will account for 60% of the final grade, also (and very important!) you will need a minimum of 66% in this exam to pass the class. Even if you have a good overall average grade.

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

Passing this class

The final grade is calculated with the following formula: $0.4 \times \text{(midterm score)} + 0.6 \times \text{(final exam score)}$.

You will have a C (or a ‘Pass’) if you have at least 66% as your final score AND at least 66% in the final exam.

These requirements are not so tough if you work hard during the whole session and stay engaged. Most of the students who stay engaged end up having a very good grade and even

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\(^1\)Once more, having looked carefully at your answers in the homework problems and midterms will be the best guide to preparing for the final exam.
enjoy the class. Most of the students that don’t pass this class are, unfortunately, the ones that do not seek help in the questions they do not understand in homework or midterm, or the ones that think they got a 65% in the midterm and tell themselves they where just unlucky and next time they will have that missing 1% (when in fact they are missing 35% of the material, right?!).

Course’s web page

Address: [http://www.soe.ucsc.edu/classes/ams003/Summer09/](http://www.soe.ucsc.edu/classes/ams003/Summer09/)

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: NmNmYj

Disability Resource Center students

If you qualify for classroom accommodations because of a disability, please get an Accommodation Authorization from the Disability Resource Center (DRC) and submit it to me in person outside of class (e.g., office hours) within the first two weeks of the quarter. Contact DRC at 459-2089 (voice), 459-4806 (TTY), or [http://drc.ucsc.edu](http://drc.ucsc.edu) for more information on the requirements and/or process.

Class Rules

No type of collaboration between students is allowed in the midterm or the final exam. Not complying with this rule will initiate a very unpleasant procedure for both the students and us, so please don’t let yourself get to the point where illegal collaboration becomes an option; start working from the first day of class and stay engaged with us in sections, office hours and tutoring sessions.

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.

Not complying with these rules will affect your grade considerably.

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 practically one-to-one tutoring. I (the TA and MSI tutor) 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. In fact, there is a resource that I strongly advise all students to take, it’s a set of workshops that (in my opinion) should be compulsory to all students since they are so useful; more information at [http://www2.ucsc.edu/csas/#workshops](http://www2.ucsc.edu/csas/#workshops).
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 problems assigned for homework. It is almost pointless to tackle homework 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" $\Rightarrow$ "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 Bruno 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!