

GENERAL REMARKS

This is the final course in a two quarter sequence covering several variable calculus. The text for the course is Colley, *Vector Calculus*, Third Edition, (Prentice-Hall, 2006, ISBN-10: 0131858742), which is the same text used in the prerequisite course Mathematics 10A. In this course, the material in Sections 5.1–5.5, 6.1–6.3, and 7.1–7.4 will be covered. Familiarity with material in the first four chapters of the text will be assumed because these are covered in the prerequisite course 10A.

Contact information. My office is Surge 221, and it is around the corner from the Department's administrative front desk (Surge 202). Normally I should be available in my office between 10:30 and 11:30 on Fridays, and at other times by appointment. My office telephone number is 951-827-6459 (as usual, suppress the area code from inside the 951 region, and also replace the 827 by a 2 if calling from an extension at UCR). For some time the voice mail for this number has not worked, and it is not clear that this situation will change, so I can only answer this number if I am in my office. Another highly recommended option is electronic mail; my full address is `schultz@math.ucr.edu`. Use of electronic mail is often easier than trying to play telephone tag. **IMPORTANT:** The default filters for electronic mail on the Department network are not very restrictive and I receive an enormous amount of garbage in my electronic mailbox (100 per day sometimes!). Therefore I **strongly recommend** that you include something like Math 10B in the subject heading so that your message does not get inadvertently deleted without being read. Also, since the authors of junk messages often use only capital letters in their subject headings, this should be avoided as well.

Grading policy: There will be three in-class examinations. The first two will count 26 per cent of the course grade and the last of which will count for 30 per cent of the grade. There will also be three quizzes in the discussion sections that will count for a total of 18 per cent.

Primary class sessions: Students are responsible for knowing how to do all the exercises listed on the course homework file. Answers are either in the course texts or will be posted online (see below for more on the latter).

Schedule of quizzes and examinations. The three examinations will be given on October 21, November 9 and December 2 (the first and third are **Wednesdays** and the second is a **Monday**). Part of the third examination will be cumulative (but in any case it be the same in length as the others). The three quizzes are tentatively scheduled for October 6, October 27 and November 17 (all of which are Tuesdays).

No books, notes or calculators are allowed for examinations or quizzes. You should always bring your UCR identification card to examinations and quizzes (there might be identification checks). Most questions will be problems from the assignment sheets, examples from the text or lectures or discussion classes, or straightforward modifications of these (usually slightly different numbers or functions).

Online course materials: All printed handouts and announcements for this course are available online at the following World Wide Web site:

<http://math.ucr.edu/~res/math10B>

The contents of this directory include a copy of this handout (`azaInformation.pdf`), the course outline, the homework assignments, and various files containing supplementary material. All files except a few ordinary text files are available as pdf files. These can be opened, downloaded, read or printed with the free Acrobat readers that are currently available or easily downloadable for most PC's (including both Macintosh and Unix based systems — there are also such readers for some smart cell phones, Blackberries and similar pocket-sized devices, but I do not have complete information on availability).

There is also a directory containing background material from the prerequisite first course in the sequence (Mathematics 10A):

<http://math.ucr.edu/~math10A>

NOTE 1. *Please contact me promptly if you have problems viewing or printing out any of these files.* It is particularly important that you can get a copy of the course assignment sheet `math10Bassignments.pdf` and the additional exercises in the document `addexercises.pdf` because selected problems from this list and document, or some very similar items, are likely to appear on examinations or quizzes.

NOTE 2. *The files in my course directories are **ONLY** intended for classroom purposes and are **NOT** meant for widespread public circulation.* In some cases further distribution would be a violation of copyright laws or the terms of use for material in the files.

Discussion sessions: In addition to the regular weekly lecture schedule, the class is split into two discussion sections that are scheduled for one hour each week; the instructor is Mr. Curtis Pro. Further information will be made available at discussion section meetings.

General expectations. Students are expected to attend all classes, both lectures and discussions, but this will not be enforced except in the case of examination dates. Missing class can seriously affect one's course grade. It is important to keep up with the course and finish homework assignments in a timely manner. Preparing for the lectures by reading the book before class is strongly encouraged, as are taking notes and asking questions during class if you do not understand something or if something in the class seems incorrect – even if everyone else seems to understand what is going on (if there is not time to answer some questions during class, arrangements can be made to do so afterwards). It is essential to attempt the homework problems before going to discussion. Solving many problems is the best way to solidify your understanding of mathematics and to prepare for examinations. **If you find you can't do something ask for help.**

Student questions during primary class sessions are encouraged. Please do not hesitate to ask questions, especially if you do not understand something or if something in the lecture seems wrong — even if everyone else seems to understand. Questions on homework or review are generally best answered at the beginning of class and should be asked at that time. In general such questions are encouraged, but in some cases it might be necessary to limit such question periods or to post the answers online after class.

The primary instructor and teaching assistant will attempt to answer electronic messages regarding the course in a reasonably timely manner, especially during regular working hours, and in some instances one or the other may respond outside of such hours. Complete answers to more complicated questions may require additional time.

Disability issues: Students who have been certified as eligible for academic adjustments under existing laws should contact the primary instructor within the next week with the necessary supporting materials. Further information on campus services for students with disabilities is available at the following sites:

<http://www.specialservices.ucr.edu/swd/default.html>

<http://www.specialservices.ucr.edu/swd/aboutus.html>