

# Math 5B: Vector Calculus I, Fall 2010

<http://math.ucsb.edu/~helenateaching/math5b>

## Instructor:

Helena McGahagan  
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## Teaching Assistants:

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**Lectures:** TR, 3:30-4:45pm, TD-W 1701

Please check GOLD for the time and location of your discussion section.

**Office Hours:** Mon. 9-10:30am, Wed. 10:30am-noon, or by appointment. (*You may also drop by during office hours for my other classes; see the schedule online or outside my door.*)

**Textbook:** *Vector Calculus*, Miroslav Lovrić

**Course Description:** We will cover most of chapters 1 through 7 and part of chapter 8 in your textbook. This includes material on vectors, derivatives involving functions of several variables and vector-valued functions, path integrals, double and triple integrals of functions of several variables, and Green's Theorem. The course website will stay up to date with which sections of the book we have covered in class.

**Homework and Quizzes:** Problem sets will be posted to the course website. They will be due at the beginning of lecture on the due dates, usually Thursdays. Your homework sets must be your own work; please refer to UCSB's academic honesty policy. Your two lowest homework grades will be dropped when calculating your percentage. Over the quarter, there will also be four 15-minute quizzes given during lecture. There are no make-ups for any of the quizzes, but your lowest score may be replaced by your final exam grade.

**Midterm:** There will be a midterm given in class on Thursday, Oct. 28<sup>th</sup>. Makeups are only available for documented reasons and only if you contact me before the exam begins (except when not possible due to emergency).

**Final Exam:** The final exam will be given on Friday, December 10<sup>th</sup>, from 4-7pm. An incomplete for the course will be given only for documented medical reasons or emergencies.

**Help:** Besides my office hours, and your TA's office hours, extra help is available on a drop-in basis at the Math Lab (SH 1607, M-F 12-5). Students may also sign up for group sessions with CLAS. Students with disabilities are responsible for contacting the DSP office and informing me about any needed accommodations as soon as possible.

NO calculators, books, notes, or collaboration are allowed on any of the quizzes or exams. Also, please completely turn off all electronic devices during lecture!

## Grading:

Homework: 10%  
Quizzes: 20%  
Midterm: 30%  
Final: 40%