

Math 20E: Vector Calculus

Spring 2012, Section IDs 740065-740070

Instructor	Andrew Gillette akgillette@mail.ucsd.edu Office: AP&M Building 5824 Office Hours: Mon, Wed 1:30-3pm, or by appointment
TAs	See website.
Class Website	http://ccom.ucsd.edu/~agillette/teaching/s12
Class Times	Lecture: MWF 10-11am in Warren Lecture Hall Room 2005 Discussion: Thursday with your TA
Quiz and Test Dates	<ul style="list-style-type: none">• Quiz (in discussion section): Thursdays: April 12, April 26, May 10, May 24, June 7• Midterm: Monday May 14 during lecture hour• Final: Monday June 11 8-11am
Required Materials	<ul style="list-style-type: none">• “Vector Calculus” 5th ed. by Marsden and Tromba; published by W. H. Freeman• iClicker2 (preferred) or iClicker original<ul style="list-style-type: none">→ Used or borrowed clickers are okay if you have it exclusively for the whole quarter→ Register your clicker online before class on Friday Apr 6 at http://www.iclicker.com/support/registryourclicker/** When it asks for your Student ID, use your PID, (looks like A12345678) **→ Keep some extra AAA batteries handy→ Set your clicker to our classroom frequency: AB
Course Topics	Jacobian, change of variable in multiple integrals, vector fields, gradient, divergence, curl, line integrals, surface integrals, Stoke’s theorem, Green’s theorem, Gauss’ theorem, conservative fields, Stokes’ theorem. The course calendar is at the class website.
Prerequisites	Math 20C (or Math 21C) or Math 31BH with a grade of C or better.
Grading Policy	20%: Final exam 20%: Midterm exam 40%: Quiz average (best 4 of 5) 10%: Homework average (best 8 of 10) 10%: Clicker score There is no pre-determined number of each type of grade that will be given out meaning it is <i>technically</i> possible that everyone could get an A. However, I will aim the difficulty of the tests and assignments so that grades will fall roughly into the usual ranges: A± →90-100%, B± →80-90%, C± →70-80%.
Quizzes	Quizzes will be held every other Thursday in discussion section with your TA. There will be <u>no makeup quizzes</u> and you must take the quiz in the section in which you are enrolled. Your lowest quiz score will be dropped when computing your quiz average.

Homework	Homework is due each Friday by 3pm to the homework dropbox on the basement level of AP&M. Your lowest 2 homework scores will be dropped when computing your homework average.
Clickers	You should bring your clicker to every lecture (MWF). Your clicker score will be based partly on participation and partly on the number of correct answers. You will usually have an opportunity in class to revise your answer to clicker questions based on discussions with your classmates. Thus, it will be very beneficial to your grade to come prepared for class and to talk with your classmates when prompted.
Midterm	The midterm will be held during lecture on Monday May 14 for the full 50 minutes. It will cover all material presented up to and including May 4 (the first five class weeks). Midterm policies will be posted on the class website before the test. The midterm will likely contain a previous quiz and / or homework question so it is to your great advantage to learn from your mistakes!
Final	The final will be held Monday June 11 8-11am in a room to be scheduled by the university. It will cover all material in the course. Final policies will be posted on the class website before the exam. The final will likely contain a previous quiz and / or homework question so it is to your great advantage to learn from your mistakes!
Cel Phones, Laptops, etc	Usually I will not allow the use of electronic devices of any kind during lecture, besides clickers. If you have a truly essential text, tweet, or post, please step outside of the classroom. However, we will occasionally have 'internet days' when I will invite you to bring and use your web-enabled devices during class. I will announce these days in advance during lecture.
Academic Integrity	Working together on homework questions or Clicker questions in class is highly encouraged. Copying someone else's work on homework, quizzes, or tests, however, is considered cheating and violates the Policy of Integrity of Scholarship at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. If you feel that you are not on track to receive the grade you deserve, please contact me in person or by email before it becomes a larger issue.
Tutorial Services	The Office of Academic Support and Instructional Services (OASIS) will offer weekly workshops for Math 20E on Tuesdays and Thursdays from 12-1:150pm starting the second class week. Additional tutorial services may be available through them as well. For more information, visit OASIS on the 3rd floor of Center Hall or call 858-534-3760.
Accommodation	Students with special needs or disabilities must provide me with an Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) as soon as possible. Please call OSD at 858-534-4382 or visit http://disabilities.ucsd.edu for more information.