

Math 20C 2017 Summer Session I Lecture A
Syllabus

Course: Math 20C

Title: Calculus and Analytic Geometry for Science and Engineering

Credit Hours: 4 (Two credits if taken after Math 10C; no credit if taken after Math 31BH, or Math 20C equivalent.)

Prerequisite: AP Calculus BC score of 4 or 5, or Math 20B (or equivalent) or Math 10C with a grade of C- or better.

Catalog Description: Vector geometry, vector functions and their derivatives. Partial differentiation. Maxima and minima. Double integration.

Textbook: *Vector Calculus, sixth edition*, by Jerrold E. Marsden and Anthony J. Tromba; published by W. H. Freeman and Company; 2012

Subject Material: We will cover parts of Chapters 1 - 5 of the text. A list of the topics scheduled to be discussed can be found on the course calendar

Homework: Written homework is assigned each week and is due the following week on Monday at 5PM. The exception to this rule is Homework 5, which will be due on the day of the final. Please write your name, PID, homework number, and section on each homework assignment. Homework will be posted under the homework tab on the course webpage. Updates and changes may be made to the assigned homework problems to match the flow of the course, and you are responsible for any changes made to the assigned problems.

You are allowed to collaborate with other students on homework assignments, but must write up your own answers to the homework problems individually.

Reading: Reading the sections of the textbook corresponding to the assigned homework exercises is considered part of the homework. Lecture time is very limited and not every subject can be fully discussed in the time allotted for lecture. You must read the assigned sections of your textbook (and work through the examples) to fully understand the subject. You should expect questions on the exams that will test your understanding of concepts addressed in the reading and assigned homework exercises, *whether or not they are discussed in the lecture*.

Quizzes: There will be weekly quizzes during lecture to test your understanding of recent material. Each quiz will be weighted at 1% of your final grade. The first quiz will be a diagnostic quiz to test your understanding of the prerequisite material, and will be on the first day of lecture, Thursday, July 6th. The following quizzes will occur during lecture and will not be announced ahead of time. Quizzes will be based on lecture, homework, and readings, which all students are responsible for. No notes, textbooks, or electronic devices will be allowed during quizzes. The professor reserves the right to change the seats of any students in the room under suspicion of academic integrity violations.

30 minutes will be allotted to the first quiz, and 15 minutes will be allotted to the following quizzes. If all students turn in the quiz prior to the allotted time, then lecture will resume after all quizzes have been turned in.

Exams: There will be one midterm exam and one final exam. See the course calendar for the specific dates and times. The midterm will be 50 minutes long (roughly one third of the lecture day), and the final will be 2 hours and 50 minutes long. Exams will be based on lecture, homework, readings, and quizzes, which all students are responsible for. Extra time may be granted by the professor, but extra time is a privilege granted, rather than an automatic right.

Test packets will be provided for each exam, and no blue books will be allowed during either exam. Please be sure to bring a photo ID to the exam, as test proctors will be checking them during the exam. Please place bags, notebooks, textbooks, and all other non-testing materials at the front of the exam room prior to the start of the exam. Any caps must be removed or turned backwards during examinations. For any questions during the exam, scratch paper requests, or restroom breaks, please raise your hand to alert a test proctor. Proctors are not obligated to answer any of your questions, and may only answer clarifying questions that resolve any ambiguities or errors in the examination. For restroom breaks, you are required to leave any electronic device in your possession at your desk, face-down. Only one student may be on a restroom break at any given time during an exam.

Seats for each exam will be assigned to each student on the night before each exam. ***Failure to sit at the assigned seat will result in a 10% deduction to the exam grade and may be considered a violation of academic integrity.*** Students may request left-handed seats, front row seats, or other special seating arrangements no later than three (3) days prior to either exam. Test proctors reserve the right to change the assigned seats of any students in the room under suspicion of academic integrity violations, and in which case, the student is assigned to the new seat.

Please keep the following in mind:

- It is your responsibility to ensure that you do not have a schedule conflict involving the final examination. You should not enroll in this class if you cannot sit for the final examination at its scheduled time.
- There are no make-up exams for any reason, nor do we allow for alternate times for taking exams, other than for a documented disability or for a university sponsored activity. If you have a documented disability or must miss the exam for a university sponsored activity, then arrangements can be made using the standard procedures.
- You are allowed to bring one (1) 3"x5" note card with handwritten notes with you to examinations. You may use both sides. **No other notes will be allowed during examinations, and having any such notes, including a larger notecard, will be considered a violation of academic integrity.**

- ***No calculators or electronic devices of any kind will be allowed during the examinations. Having any electronic devices out will be considered a violation of academic integrity.***
- ***You may not take out any scratch paper, extra notes (outside of the allowed note card), textbooks, or other such materials during quizzes or examinations. Having any of these materials out during quizzes or exams is considered a violation of academic integrity.***
- ***Note that materials or electronic devices being “out” may include having them on the desk, floor, or anywhere visible from the student’s position.***

Regrade Policy: Midterm exams and homework will be returned in the discussion sections, and may be returned during office hours. If you believe there might be an error in the grading and wish to have your exam or homework regraded, you must observe the following rules:

- 1) Return your homework immediately to your TA. Regrade requests will not be considered once you take your homework out of the room, unless the request is due to significant mass grading error, wherein a majority of the students in the course received the same grading error.
- 2) Retrieve your homework during discussion section or arrange to pick it up from your TA within one week after it was made available for pickup (i.e., returned) in section. In order to be considered, regrade requests must be submitted within one week after being returned in section.
- 3) Regrade requests for exams may be filed directly on gradescope. You have one week or until the Monday after the final to file an exam regrade request, whichever is sooner.
- 4) The original graders will process any regrade requests for which there is an administrative error, such as an incorrect grading total, an ignored section in grading, or a grading rubric error. Any other regrade requests will be processed by the professor, on a separate rubric.
- 5) For any regrade request, your grade will be the new grade that is assigned when the regrade is processed, even if the grade you receive may be lower than your original grade. Moreover, any exams or assignments regraded by the professor will be regraded in full on a separate rubric, and not just on contested problems. Any regrade requests fulfilled by the professor are final and may not be changed, except by administrative errors as described above.

If you wish to contest administrative errors on final grades or final exam grades prior to the end of the quarter, please contact the professor immediately to have any administrative errors corrected. If you wish to contest final grades or final exam grades after the end of the quarter, you must contact the professor to schedule an appointment to discuss your grades.

Grade Recording Errors: Keep all of your returned homework and exams and check TritonEd to make sure that the grades on your papers are the same as the grades recorded on TritonEd. If there is any mistake in the recording of your scores, you must bring us the original assignment/quiz/exam in order for us to make the correction.

Grades: Your cumulative average will be the **best** of the following three weighted averages:

- 5% Quiz, 20% Homework, 30% Midterm Exam, 45% Final Exam
- 5% Quiz, 15% Homework, 15% Midterm Exam, 65% Final Exam
- 100% Final Exam

After your weighted average is calculated, letter grades will be assigned based on the following scale, where the numbers indicate the minimum weighted average required to achieve the corresponding grade:

A+	A	A-	B+	B	B-	C+	C	C-	F
98	93	90	87	83	80	77	73	70	< 70

Barring any academic integrity issues or grading errors, your grade is bounded below by your weighted average. For example, if your weighted average is 80%, and there are no other issues present, your final grade in the course will be at least an B-, even if the rest of the class had a higher weighted average. The scale may be adjusted due to class performance, but there is no guarantee that such an adjustment would occur.

Please note, **you must pass the final examination in order to pass the course.**

Extra grading considerations: The instructional staff of this course value effort put forth by students to understand the course material. Things such as posting frequently on piazza, attending and participating in discussion sections and office hours, and/or otherwise showing dedication to the course may be taken into consideration when determining final grades. These extra effort considerations must be noticed by the instructional staff to be considered, and will not be considered if the student submits an appeal regarding extra effort they claim to put forth.

Piazza: Piazza is an online discussion forum that allows you to ask questions using mathematical symbols and expressions. Piazza was designed to enable you to get help quickly and efficiently from classmates, TAs, and instructors. You are encouraged to post your questions on Piazza, and are likely to get quicker responses there.

The instructional staff may provide important details about the course, corrections, and other information on piazza. Students will be responsible for keeping up with information provided by instructional staff on piazza. Student answers may not be considered official unless the answers are endorsed by any instructor of the course, with the professor of the course having final say on any answer.

Find our class piazza page at: <https://piazza.com/ucsd/summer2017/math20c/home>. If you have any problems or feedback for the developers, email team@piazza.com.

A Note on Outside Help: You are responsible for verifying any information you receive from outside sources (eg tutors), and no one on the instructional staff is responsible for any misinformation given by outside sources. Only the professor's word may be considered final.

Electronic Computing Devices: Graphing calculators and computer programs (or online computing websites such as Wolfram|Alpha) can be very helpful when working through your homework, and you are free to use such resources when doing homework. **Note that you will not be allowed access to any electronic devices during exams**, and should practice completing problems without the aid of electronic devices. Problems on exams should not require the use of an electronic computing device.

Academic Dishonesty: Academic dishonesty is considered a serious offense at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. Maintaining academic integrity is of utmost importance in any course. What this amounts to in simplest terms is "don't cheat". However, it is often unclear to students what is considered a violation of academic integrity.

Violations of academic integrity include but are not limited to:

- Copying homework, quiz, or exam solutions from another student(s)
- Using unauthorized materials during a quiz or exam, even if they are not your own
- Looking at another student's quiz or exam, during the quiz or exam
- Soliciting quiz or exam answers from unauthorized sources during or prior to a quiz or exam
- Giving quiz or exam answers to student(s) during or prior to a quiz or exam, or after a quiz or exam prior to every quiz or exam being turned in
- Discussing any quiz or exam during the quiz or exam, or after the quiz or exam prior to every quiz or exam being turned in
- Plagiarism, i.e. claiming that another person's work is your own.
- Having other people complete homework, quizzes, or exams in your place
- Collaborating with other student(s) during quizzes or exams, or after quizzes or exams prior to every quiz or exam being turned in.
- Looking at an exam prior to the start of the exam, or continuing to write on the exam after a proctor has declared the exam to be over
- Attempting to change the answers on a quiz, homework or exam after it has been turned in or graded

Violations of academic integrity will not be tolerated and will be taken through the proper procedures.

For any other questions, comments, or concerns regarding the syllabus, please contact the professor.