Math 5C – Analytic Geometry and Calculus III – Section 88335

Time: M W 2:30pm - 4:55pm
Instructor: Joe Caputo
Email: jocaputo@cabrillo.edu
Office Hours: M W 10:00am - 11:00am T Th 2:10pm - 3:30pm
Office: 710 D
Office Hour Note: If you are unable to meet with me during the times listed, please don’t hesitate to contact me and schedule a meeting. The MESA Center (Room 834) and the ILC (in Watsonville) are also excellent places to get free drop in help.

Room: 715
Phone: (831) 477-3239
Website: www.cabrillo.edu/~jcaputo/math5c.htm

Student Learning Outcomes:

• Apply the basic fundamentals of one variable differential and integral calculus as they pertain to multivariable calculus, including derivation and integration.
• Use vectors and vector functions to model and solve problems by applying vector addition, scalar multiplication, the dot product, the cross product and the calculus of vector functions.
• Apply the basics of vector calculus including line integrals, Greens Theorem, curl and divergence, and surface integrals.

Course Description: Math 5C, Analytic Geometry and Calculus III. Prerequisite: Math 5B (Calculus II) with a grade of "C" or better. Presents vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Greens Theorem, Stokes Theorem, divergence theorem. Designed for majors in mathematics, engineering, and physical sciences. May not be taken pass/no pass.


Calculators: A scientific calculator is required for this course. Access to a graphing calculator or program may be beneficial. Cell phones, PDAs, etc. may not take the place of a calculator.

Homework: Homework will be assigned each class period and collected on each exam date. Late homework will not be accepted! Do not save your assignments until the last minute!

Exams: There will be 3 midterm exams and a final. There will be no make up exams! If something catastrophic happens and you have to miss an exam for a legitimate (and documentable) reason, then the final exam will carry the extra weight of the missed exam. Ultimately the instructor has the final say in whether the reason for missing the exam is legitimate.
Grading System:
Homework 5%
Exams (3 total) 21% (each)
Final Exam 32%

Final Exam: The final exam will be held on Monday, May 18 from 1:00pm - 3:50pm.

Participation and Attendance: Attendance will be taken and I encourage you to participate in class. Ultimately your organization, motivation, determination and commitment to this course are the largest contributing factors to your success. In addition, missing more than two class periods may result in the student getting dropped from the class.

Ethical Conduct: Cheating includes (but is not limited to) receiving or providing unauthorized assistance on examinations or quizzes, using unauthorized materials during an examination or quiz, altering an exam, quiz, or homework and submitting it for re-grading, and using false excuses to obtain extensions of time or special privileges. Do not cheat. Cheating will earn you a score of zero on the assignment in question.

Classroom Etiquette: During classroom discussions please be respectful, polite, and attentive. Please turn off all cell phones, pagers, and any devices that may distract others.

Thoughts on Group Work: I highly recommend establishing a group to work with throughout the course. To teach is to learn twice and explaining a concept to a fellow classmate helps you at least as much as it helps him/her.

Add/Drop Policy: I reserve the right to drop students that fail to attend class regularly. Students may only add the class with a permission number obtained from the instructor.

Student Accessibility: All students needing accommodations should inform the instructor ASAP. Veterans may qualify for accommodations. Wounded Warriors may have acquired injuries which through the American with Disabilities Act (ADA) entitles the use of accommodations to ensure equal opportunity for students with verified disabilities. To determine if you qualify or need assistance with an accommodation, please contact the Accessibility Support Center, Room 1073, 479-6379, or the Learning Skills Program, Room 1073, 479-6220.

Amendment Clause: This syllabus is subject to change and amendment, any such changes will be announced in class.