

Math 280, Calculus/Geometry 3

Online, Spring 2009, Coastline Community College

Instructor:	Jenny Lam	E-mail:	jlam@coastline.edu
CRN:	91141	Course entrypoint:	www.seaport.coastline.edu
Course ID:	lam07795	Course website:	www.coursecompass.com
Dates:	1/31/09–5/31/09		

WHAT YOU WILL NEED FOR THIS CLASS

Prerequisites. Successful completion of Math 185, Calculus/Geometry 2, or equivalent.

Technical requirements.

1. operating system: Windows 2000, XP, Vista, or Mac OS X,
2. browser: Internet Explorer 6.0, Firefox, or Safari,
3. a Coastline e-mail address, with domain `student.cccd.edu`,
4. administrative rights to your computer.

Note. Calculators are not required for this course and will not be allowed during the exams.

Textbook. The course text is *Thomas' Calculus, Early Transcendentals, Media Upgrade*, 11th Edition, revised by Weir, Hass, and Giordano. ISBN 0321495756.

Access code. An access code is required to use the course website and the electronic version of the textbook. It is available with the purchase of a new textbook, or directly from the publisher's website at www.coursecompass.com.

WHAT TO EXPECT FROM THIS CLASS

Student Learning Outcomes. Upon completion of Math 280 the student shall be able to:

1. Apply multiple integrals to obtain the solutions of a real-world problem in two or three-dimensional space.
2. Apply the principles of differential and integral calculus to solve a real-world problem involving vector fields.
3. Calculate partial derivatives, and use the chain rule to find partial or total derivatives of functions of several variables.
4. Evaluate line integrals, surface integrals and find flux.
5. Determine extrema of functions of several variables with and without Lagrange multipliers and use in applications.
6. Determine limits and the continuity of functions of several variables, and prove the existence or non-existence of limits.
7. Use appropriate technology such as calculators or computer software to enhance mathematical thinking, visualization, and understanding, to solve mathematical problems, and judge the reasonableness of the results.
8. Expand quantitative reasoning skills to develop convincing arguments and to communicate mathematically both verbally and in writing.

Class participation. Each week, students must contribute a minimum of three mathematics-related posts on the discussion board in any of the following categories:

1. questions with course content (no more than one may count towards the minimum)
2. answers to student questions or corrections to student solutions
3. complete solutions to instructor-proposed problems
4. significant corrections to one's own solutions after feedback is provided

Questions without course content, second and third math-related questions, simply agreeing with a student's solution, and partial and vague answers do not count towards the weekly minimum.

Homework. Online and due weekly. Deadlines can be extended once a semester, upon request.

Quizzes. A 30-minute online quiz on material previously covered will be given every week. No make-ups will be given. The two lowest quiz scores will be dropped.

Exams. There will be two take-home exams and two proctored, paper-based exams:

Midterm	Friday, March 27, 2009	5:30 pm to 9:30pm	Garden Grove Center
Final	Friday, May 29, 2009	5:30 pm to 9:30 pm	Garden Grove Center

Proctoring arrangements can be made in case of schedule conflict or for non-local residents.

Assessment. The grade will be computed as follows:

5%	participation	10%	take-home exam 1	20%	midterm exam
10%	homework	10%	take-home exam 2	35%	final exam
10%	quizzes				

Academic Honesty. http://dl.coastline.edu/academic_honesty.htm

It is the student's responsibility to understand the college's policies regarding academic honesty and to uphold these standards.

WHERE TO GET MORE INFORMATION AND HELP

Discussion Board. Questions which can benefit the class should be posted here.

Instructor. Online office hours are available by appointment. Students must use their Coastline e-mail address for private communication.

Tutoring. Free tutoring is available to Coastline students:

1. in person at the Student Success Center, located in the Le-Jao Center, Rm 101 (www.coastline.edu/divisions/students/page.cfm?LinkID=400)
2. online from Smarthinking (refer to the course website for more information)

Technical Support. For help with technical and administrative matters, call the Distance Learning Center at (714) 241-6216.

Tentative schedule.

Week	Dates	Sections	Notes
1	2/02–2/08	12.1–12.3	
2	2/09–2/15	12.4–12.6	2/13: last day to drop with refund
3	2/16–2/22	13.1–13.3	2/14–2/24: take-home exam 1
4	2/23–3/01	13.4–13.5	2/28: last day to drop without W, skip 13.6
5	3/02–3/08	14.1–14.3	
6	3/09–3/15	14.4–14.6	
7	3/16–3/22	14.7–14.8	
8	3/23–3/29	14.9–15.2	3/27: midterm, skip 14.10
–	3/30–4/05	–	Spring Recess
9	4/06–4/12	15.3–15.4	
10	4/13–4/19	15.5–15.6	
11	4/20–4/26	15.7–16.1	4/18–4/28: take-home exam 2
12	4/27–5/03	16.2–16.3	5/2: last day to drop with W
13	5/04–5/10	16.4–16.5	
14	5/11–5/17	16.6–16.7	
15	5/18–5/24	16.8, review	
16	5/25–5/31	review	5/29: final