Math 274 Fall 2013 Section 2

Time and Place:	MTWRF 7:15-8:00 a.m. Cathedral Catholic HS
Instructor:	Maria Zack, Ph.D.
E-mail:	mzack@pointloma.edu
Office Phone Number:	619-849-2458
Cathedral Catholic OH:	Monday – Friday 6:45-7:15 a.m. (before class)

The best way to reach me is via email. I look at my email on my smart phone regularly. If you have an emergency (or if a problem is driving you crazy), you can also call me at home if you call **before 8:45 p.m.** 760-753-7861.

Required Materials: A scientific calculator is recommended

Text: Multivariable Calculus (7th Edition) by James Stewart

Content:

This is a third course in calculus. The catalog description for this course is: Conceptual development of the calculus of functions of more than one variable supported by the use of a symbolic computer algebra system. Limits and continuity, partial derivatives, chain rule, extreme values, Taylor's theorem, multiple integrals, line and surface integrals, Green's Theorem and Stokes' Theorem.

Objectives:

The goal of this course is to make the student familiar with multivariable calculus and some of the applications of multivariable calculus to the physical world.

Learning Outcomes for the Course:

- Students will be able to demonstrate facility with analytical concepts.
- Students will be able to demonstrate facility with algebraic structures.
- Students will be able to apply their mathematical knowledge to solve problems.
- Students will be able to use technology to solve problems.
- Students will be able to speak about their work with precision, clarity and organization.
- Students will be able to write about their work with precision, clarity and organization.
- Students will collaborate effectively in teams.

Grading:

The components of the grades:

Homework	150
Projects and Activities	100
Exams (3 at 150 points each)	450
Final	300
Total Points	1000

Approximate minimal points required to obtain a given grade are:

	Α	В	С	D	
+		(875, 900)	(775, 800)	(675, 700)	
	[925, 1000]	[825, 875]	[725, 775]	[625, 675]	
-	[900, 925)	[800, 825)	[700, 725)	[600, 625)	

Note that scores of 599 or lower will result in an F.

Homework:

Homework will be assigned each day at the end of class. All homework assigned in a week will be **due at the start of class** the next Wednesday. No late homework will be accepted except by prior arrangement or with a documented emergency. The object of the homework is to learn how to do the problems so I expect to see calculations on your homework using the terminology and methods of the class and not just the answer. A random selection (the same for all people) of the problems will be graded on any homework assignment.

Projects and Activities:

During the semester you will be assigned 3-4 activities or projects that will require group work outside of class. These projects will need to be written up carefully. I will make my expectations clear for each project.

Exams:

There are three in-class exams. If you do not take an exam you will receive a zero for it. Late exams may be taken only by <u>prior arrangement</u> or with a documented emergency. I must participate in the decision for you to miss an exam, this means that you need to phone me <u>before</u> missing an exam.

Final:

The final is cumulative and is given on **FRIDAY DECEMBER 13, 2013.**

Attendance:

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes in which a student is registered is considered essential to optimum academic achievement. Therefore, regular attendance and participation in each course are minimal requirements to be met. There are no allowed or excused absences except when absences are necessitated by certain university-sponsored activities and are approved in writing by the Provost. Whenever the number of accumulated absences in a class, for any cause, exceeds ten percent of the total number of class meetings, the faculty member has the option of filing a written report to the Vice Provost for Academic Administration which may result in de-enrollment, pending any resolution of the excessive absences between the faculty member and the student...If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF (no grade). There are no refunds for courses where a de-enrollment was processed." (see catalog for full text)

Class Enrollment:

It is the student's responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

Academic Accommodations:

While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the Disability Resource Center (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student's instructors and provide written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. This policy assists the university in its commitment to full compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities (ADA) Act of 1990, and ADA Amendments Act of 2008, all of which prohibit discrimination against students with disabilities and guarantees all qualified students equal access to and benefits of PLNU programs and activities.

Students with learning disabilities who may need accommodations should discuss options with the instructor during the <u>first two weeks</u> of class.

Academic Honesty:

The Point Loma Nazarene University community holds the highest standards of honesty and integrity in all aspects of university life. Academic honesty and integrity are strong values among faculty and students alike. Any violation of the university's commitment is a serious affront to the very nature of Point Loma's mission and purpose.

Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. Such acts include plagiarism, copying of class assignments, and copying or other fraudulent behavior on examinations. For more details on PLNU's policy go to:

http://www.pointloma.edu/experience/academics/catalogs/undergraduate-catalog/point-lomaeducation/academic-policies

A student who is caught cheating on any item of work will receive a zero on that item and may receive an "F" for the semester. See the PLNU Catalog for a further explanation of the PLNU procedures for academic dishonesty.

E-mail:

I expect that you regularly use e-mail. I will periodically send you information and updates via e-mail.

Some Tips About This Class:

This class moves very rapidly and covers a lot of material. For the best success in this class come to class regularly, stay current with your assignments (cramming won't help) and if you have a question **ASK**.

Cathedral Schedule for MTH274

Sunday	Monday (45)	Tuesday (45)	Wednesday (45)	Thursday (45)	Friday (45)	Saturday
11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug
		Intro & Calc II		Set up and		
	No Class	Review	Calc II Review	Logistics	12.1	
18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug
	12.2	12.3	12.2	Dhusies	12.4	
25-Aug	26-Aug	12.3 27-Aug	12.3 28-Aug	Physics 29-Aug	12.4 30-Aug	31-Aug
25-Aug	20-Aug	27-Aug	20-Aug	29-Aug	50-Aug	51-Aug
	No Class	12.5 Team work	12.5 Presenations	12.6	12.6	
1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep
		No Class - Project				
	Labor Day	13.1	13.1 Presentations	13.2	13.2 & 13.3	
8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
	Nol Class -	Nol Class -	Nol Class -		No Classes at	
	Individual Project	Individual Project	Individual Project	13.4	Cathedral	
15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep
	13.4	Review	Exam #1	Go over test	14.1 & 14.2	
22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	14.1 & 14.2 27-Sep	28-Sep
22-3ep	23-3ep	24-3ep	23-3ep	20-3ep	No Class - Project	28-3ep
	14.2	14.3	14.4	14.4	14.5	
29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct
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	14.5 Presentations	14.5	14.6	14.7	14.8	
6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
	14.8	15.1	15.2	Review	Exam #2	
13-Oct	14-Oct	15-Oct	16-Oct No Class - School	17-Oct	18-Oct	19-Oct
	Columbus Day	Go over test	Testing	15.3	15.4	
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
			-0 000	No Class 15.5 and	No Class 15.5 and	
	15.7	15.7 & 15.8	15.8	15.6 Projects	15.6 Projects	
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov	2-Nov
	15.5 & 15.6	15.5 & 15.6	15.5 & 15.6 Wrap			
	Presentations	Presentations	up	15.9	15.1	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	No Class	16.1	10.2	16.2	16.2	
10 Nov	11-Nov	16.1 12-Nov	16.2 13-Nov	16.3 14-Nov	16.3 15-Nov	16-Nov
10-Nov	11-1000	12-1000	13-1000	14-INOV	12-1004	10-1000
	Veterans' Day	Review	Exam #3	No Class	Go over test	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	TBD	16.4	Thanksgiving	Thanksgiving	Thanksgiving	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
1.5	16.4 & 16.5	16.5	16.6	16.6	16.7	
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec Project	7-Dec
	16.7	16.8	16.8	16.9	Instructions	
8-Dec	9-Dec	10-Dec	10.8 11-Dec	10.9 12-Dec	13-Dec	14-Dec
8-Dec	Project	Project	TT-DEC	12-DEC		TH-DEC
	Presentation	Presentation	Final Preparation	Final Preparation	Final Exam	