

## Spring 2014 Math 131: Computer Aided Calculus

T 7:30-9:10 in Main Lab in Ryan Library

**Instructor:** Dr. Catherine Crockett  
**Office:** RS 226  
**Phone:** 619-849-2723  
**Email:** catherinecrockett@pointloma.edu  
**Office Hours:** MW TH F 11-12, T 10:45-11:45, TTH 3-4 and M 2:40-4:00 or by appointment

**Textbook:** Material will be provided  
**Co-requisite:** MTH 144 or a score of 3 or more in AP 114 or AP 115

### Important Dates:

**Exam** March 4  
**Final** April 29

**Course Description:** This course is an introduction to the use of a computer algebra system to complement the knowledge of calculus.

**Course Learning Outcomes:** Students will be able to use technology to solve problems.  
Students will master the fundamentals of using a computer algebra system.  
Students will solve calculus problems using a computer algebra system.

### Grade Distribution for the course:

Exam	25% of course grade
Twelve Labs	45% of course grade
Final	30% of course grade

### Grading Scale:

Grades in percentages					
	A	B	C	D	F
+		[87.5,90)	[77.5, 80)	[67.5, 70)	[0,60)
	[92.5,100]	[82.5,87.5)	[72.5, 77.5)	[62.5,67.5)	
-	[90, 92.5)	[80, 82.5)	[70, 72.5)	[60, 62.5)	

**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 first two weeks 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-loma-education/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.

**Final Exam:** The final exam is a COMPREHNSIVE examination.

**Labs:** Labs will be assigned during the week and it will be collected the following week. A lab is late if it is not received by the due date. No late labs will be accepted.

**Exams:** Exam and the Final Exam will include problems and questions over material assigned in the text, readings and handouts, as well as material presented in class. No examination shall be missed without prior consent by me or a well documented emergency beyond

your control. A score of zero will be assigned for an examination that is missed without prior consent or a well documented emergency beyond your control. The examination schedule is included in the daily schedule. I do not intend to accept excuses such as poor communication with parents, benefactors, sport team sponsors and/or travel agents.

**Cell Phones:**

Turn off any cell phone, pager or things that make noise while you are in class. Also, do not text or work on other classes while in class -to do so is disrespectful to me and your classmates.

**Sources of Help:**

1. Me. If you have questions, ask me. See office hours.
2. FREE TUTORING- Math Learning Center, RS-230. Hours are posted on the door or check with the department assistant.
3. Other classmates. Form study groups! Work together!

**Tentative Schedule:** While topic order may change- the test dates will not.

Week	Tuesday
1	1/14 No class
2	1/21 Lab #1: Introduction to Maxima
3	1/28 Lab #2
4	2/4 Lab #3
5	2/11 Lab #4
6	2/18 Lab #5
7	2/25 Lab #6
8	3/4 <b>Exam</b>
Spring Break	3/11 No Class
9	3/18 Lab #7
10	3/25 Lab # 8
11	4/1 Lab #9
12	4/8 Lab #10
13	4/15 Lab #11
14	4/22 Lab #12
15	4/29 <b>Lab Final Exam</b>