# Cuyamaca College

## Math 280 – Analytic Geometry & Calculus II
### Section 8211 – Spring 2018

Instructor: Dan Curtis        E-mail:daniel.curtis@gcccd.edu
Class Times: MW 10:00-11:50 am      Room: H138
Office Hours: Monday   12:00 – 1:00   Office: H115
       Tuesday   11:00 – 12:30
       Wednesday 12:00 – 1:00
       Thursday  11:00 – 12:30

Website: www.cuyamaca.edu/people/people/daniel-curtis
WebAssign Course Code: cuyamaca 6371 3747

Prerequisites:  A grade of C or better in Math 180 or the equivalent.

Text and Materials:
- **Calculus, Early Transcendentals**, 8th Edition, Stewart
- A scientific or graphing (recommended) calculator is required. The TI 84+, TI 89, or Voyage 200 are highly recommended.

Course Description: Continuation of Math 180. Includes parametric equations, polar coordinates, hyperbolic functions, techniques of integration, indeterminate forms, infinite series and conics.

| Important Dates: | | |
|---|---|---|
| | Last day to add classes/Last day to drop and qualify for a refund and to drop without receiving a "W" | Friday, Feb 9 |
| | Last day to file a petition for credit/no credit | Friday, March 2 |
| | Last day to drop with a 'W' | Friday, Apr 27 |
| | **Final Exam**<br>(Cumulative) | **Monday, June 4**<br>**9:30-11:30am** |

It is the student's responsibility to take care of any administrative procedures involved in dropping should he/she stop attending class.

Grading: Your final grade will be based on the percentage of total points you earned, using the following scale: A = 90% and above, B = 80-89.9%, C = 70-79.9%, D = 60-69.9%, F = below 60%.

Grading Summary:

| | |
|---|---|
| Exams (3 @ 15% each): | 45% |
| WebAssign Homework: | 10% |
| Projects: | 15% |
| Final Exam: | 30% |
| Total | 100% |

Exams: There will be three two-hour exams (each worth 15% each) during the semester. Exam questions will be based on the homework, and I will review the material covered on the exam during class on the last class day before the exam. No makeup exams will be given, but if you contact me **before** the day of an exam, I may be able to make arrangements for an alternate time for you to take the exam. The final (worth 30%) will be cumulative. Cell phones, or other communication devices, are not allowed on exams. Put them in your pocket or purse. If I catch you with one out, I will take your exam away and you will only receive credit for what you have completed.

Homework: Homework assignments (worth 10% of your overall grade) will be completed using WebAssign and each section will be due one week after we cover it. Because the material from this course builds on itself, it is important to keep up with the homework assignments as they are due. You will have the opportunity to request extensions for an additional week to complete assignments, but any work done after the due date is penalized 50%. If you need an extension for a homework assignment, use the button provided in WebAssign and it will automatically be granted.

Projects: Throughout the semester, there will be projects due (worth 15% of your overall grade). The projects will consist of problems that are more interesting and involved than the typical homework and exam problems. Students are encouraged to work together, but each student is responsible for completing and submitting his/her own project.

Student Learning Outcomes
Upon successful completion of this course, students will be able to:
1) Evaluate definite and indefinite integrals using a variety of integration formulas and techniques;
2) Apply integration to areas and volumes, and other applications such as work or length of a curve;
3) Evaluate improper integrals;
4) Apply convergence tests to sequences and series;
5) Represent functions as power series; and
6) Graph, differentiate and integrate functions in polar and parametric form.

Attendance: Good attendance is a must for success in this class. College policy states that a student may be dropped from the course for excessive absences or tardies.
**My Policy**: Four absences during the first four weeks or six absences during the entire semester and you may be dropped – arriving significantly late or leaving significantly early counts as half an absence.

Disability Support Services: Academic accommodations are available for students with disabilities. Please identify yourself to your instructor and to DSPS staff so that the appropriate accommodations can be ensured. DSPS is at A-300, LRC (660-4239)

Academic Honesty: Academic dishonesty of any type by a student provides grounds for disciplinary action by the instructor or college. If you cheat, there will be consequences: I may give you a zero on the assignment or a zero in the course, or other additional consequences, regardless of whether you were the giver or receiver of the cheating.

Misconduct: Disruptive or threatening behavior or any conduct that interferes with my ability to teach or another student's ability to learn will not be tolerated. Such actions could result in a warning, removal from the class, or referral to the Dean for disciplinary action. Please turn off your cell phones during class.

STEM Achievement Center: To support your efforts to succeed in this class, I refer you to the STEM Achievement Center (H-Building). The STEM Achievement Center is a resource center that provides individual assistance in mathematics and science. Instructors and student tutors are available to answer homework questions, give confidence, and support math students. Students also have access to graphing calculators, textbooks, instructional videos, and computer tutorial programs. Computers are also available for student use. The STEM Achievement Center is open Monday through Thursday 9:00 am - 6:00 pm, and Friday from 9:00 am to 2:00 pm.

## Class Schedule

| Week | Tuesday | Thursday |
|------|---------|----------|
| Wk 1 (1/29) | Intro, 7.1 | 7.1 |
| Wk 2 (2/5) | 7.2 | 7.3 |
| Wk 3 (2/12) | 7.4 | 7.5 |
| Wk 4 (2/19) | **Holiday** | 7.8 |
| Wk 5 (2/26) | **Review** | **Exam #1** |
| Wk 6 (3/5) | 6.2, 6.3 | 10.1 |
| Wk 7 (3/12) | 10.2 | 8.1 |
| Wk 8 (3/19) | 10.3 | 10.4 |
| Wk 9 (4/2) | **Review** | **Exam #2** |
| Wk 10 (4/9) | 11.1 | 11.1 |
| Wk 11 (4/16) | 11.2 | 11.3 |
| Wk 12 (4/23) | 11.4 | 11.5 |
| Wk 13 (4/30) | 11.6 | 11.7 |
| Wk 14 (5/7) | **Review** | **Exam #3** |
| Wk 15 (5/14) | 11.8 | 11.9 |
| Wk 16 (5/21) | 11.10 | **Review for Final** |
| Finals Week | **Final Exam Monday, June 4th 9:30-11:30 am** | |