

SYLLABUS AND COURSE INFORMATION
SPRING 2020—MATH 141 CALCULUS II
SECTION 30480 7:15-9:20 PM MW F-2

INSTRUCTOR INFORMATION

Instructor: Craig Chamberlin
Office Hours: 1:15-3:40 pm M, 1:15-3:00 pm W
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COURSE DESCRIPTION

Text: *Single Variable Calculus: Early Transcendentals Volume II 8th ed., Stewart.*

Prerequisites: Grade of "C" or better in Math 140 or eligibility determined through the math placement process.

Course content: Section 4.4, chapters 6-8 (omitting section 8.4), and chapters 10 and 11.

Course Objectives: The successful student will be able to:

1. Apply critical thinking and quantitative reasoning skills to solving mathematical problems with calculus.
2. Identify and evaluate limits of indeterminate form.
3. Identify and evaluate improper integrals.
4. Model and solve application problems with definite integrals.
5. Evaluate integrals using a variety of techniques of integration.
6. Analyze sequences and infinite series with analytic, geometric, and numeric methods.
7. Represent elementary functions with appropriate power series.
8. Construct and analyze multiple representations of conic sections.
9. represent functions in the polar coordinate system using analytic, geometric, and numeric perspectives.
10. Construct, graph, and use parametric equations.

Course SLO: The successful students will demonstrate proficiency in evaluating integrals using various techniques of integration.

BASIS FOR EVALUATION:

	<u>% OF POINTS</u>	<u>LETTER GRADE</u>
1. Three in-class tests will be 60% of your grade.	90-100	A
2. Homework/Class work will be 15% of your grade.	80-89	B
3. A comprehensive final exam will be 25% of your grade.	70-79	C
	60-69	D
	0-59	F

COURSE INFORMATION

Calculators: You need a graphing calculator to successfully complete this course. However, calculators that perform symbolic calculations (like the TI-89) and

smart phone calculators are strictly prohibited on tests. I recommend a *TI-84* for this course.

- Homework:** Homework from the text will be collected on a random basis. Unless directed otherwise, finish each assignment by the Monday after it is assigned. Do each section of homework separately.
- Class Work:** Sometimes I assign problems that are to be completed in class. If I collect this class work, then I grade it as homework.
- Work load:** Most students should spend at least 8 hours per week studying outside of class.
- Tutoring:** You can get additional help at the Mathematics Learning Center, located in MC-1.
- Makeup:** No one may take tests late or turn in late assignments without an institutional excuse or doctor's note.
- Withdrawal:** It is the responsibility of the student to withdraw from a class. Note that Sunday, March 29 is the last day to withdrawal for a grade of "W."
- Absences/Tardies:** Regular, on-time, attendance is expected and necessary for successful completion of this course. A student with more than four unexcused absences/tardies may be withdrawn from class at my discretion.
- Disabled Students:** If you require accommodations for a disability, please let me know and contact Disabled Student Programs & Services at extension 2375.
- Academic Integrity:** Students are expected to adhere to the Palomar College Code of Conduct. Cheating will not be tolerated, and an offender will earn a score of 0 on the relevant work.

Tentative Weekly Schedule

Week Starting Dates (Mondays)	Activities
Jan 27	5.5, 7.1, 7.2
Feb 3	7.3, 7.4
Feb 10	7.5, 4.4, 7.8
Feb 17	(Holiday Monday) Test 1
Feb 24	6.1, 6.2, 6.3
March 2	6.4, 6.5
March 9	11.1, 11.2, 11.3
March 16	11.4, Test 2
March 23	Spring Break!!!
March 30	11.5, 11.6, 11.7
April 6	11.8, 11.9
April 13	11.10
April 20	Test 3 , 10.1
April 27	10.2, 8.1, 8.2,
May 4	10.3, 10.4, 8.3
May 11	10.5
May 18	Finish-up, Final Exam