Math 142 Calculus II  
M, T, Th, F 12:10-1:00 pm, Math & Science Building 38-222  
Spring 2017 4.0 units

Instructor: Dr. Joyce Lin  
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Phone: 805-756-5554  
Office hours: Monday 11:10am-noon and Tuesday 2:10-3pm in 25-339; Thursday 2:10-3:30pm in Kennedy Library Fishbowls or by appt.

Prerequisite: C- or better in Math 141 or equivalent.


Course objectives: We will work to:
  a.) Be able to differentiate and integrate elementary transcendental functions.  
  b.) Understand some of the applications of integration, including areas, volumes, work, arc length, lateral surface area, and center of mass.  
  c.) Know how to integrate combinations of elementary functions with accuracy and confidence.

Extra help: Never hesitate to approach me if you have any questions. There are additional resources available to you: the free tutoring drop-in center and a private tutor list (http://math.calpoly.edu/tutoring.html), and online resources for this class will be posted or linked on PolyLearn.

Participation: We will be doing in-class activities and worksheets periodically throughout the quarter.

3D-Manipulatives: Through a CSU grant funding course redesign using technology, the math department has acquired a 3D printer. In topics in Calc 2, particularly surfaces of revolution and computing volumes, hands-on manipulatives will be available and incorporated into the lectures throughout the quarter. These manipulatives will be available to students outside the classroom as well, and coding/figures used to create the manipulatives will also be posted on PolyLearn for further visualization purposes.

Homework: Homework problems will be assigned but not collected. These problems will form the basis of the weekly quizzes.

Quizzes: Quizzes will be given on most Fridays, and the sections covered will be posted on PolyLearn. The material from the quiz will be drawn directly from homework assignments. Make-up quizzes will not be given, but you may have one excused absence (please e-mail me in advance to indicate that you’d like to use your excused absence).

Exams: There will be two midterm exams during the course of the quarter, with a cumulative final exam at the end. In order for me to be able to assess your understanding, you must show your work on exams. Writing your solutions as you would like to see on a solution key, clearly with step-by-step detail, is a good guideline to getting full credit. The final exam score may be used to replace one of the two midterms scores.

Exam 1: Friday May 5th, 2017
Exam 2: Friday May 26th, 2017
Final Exam: Wednesday June 14th, 2017 (10:10am-1pm)

In the classroom: Attendance is not mandatory, but it is expected and important for classroom success. Students are held responsible for the material and announcements made during class. If you must miss class, please read through the sections in the book before coming to me with questions.

In order to minimize disruptions in class, I ask that students turn off cell phone ringers and laptops must be put away during class times. Please try to be on time and unless given prior approval, I expect you to stay through to the end of class. Chronically leaving class early or arriving late may result in points lost on quizzes.

Grades: I will use PolyLearn to post your grades. Please check to make sure what is posted is consistent with what you received on paper and if not, you must let me know within a week from the day the assignment was returned to the class. Any corrections to grades must also be requested within a week from when the assignment was returned.

The breakdown for the course grade is as follows
- Participation: 2%
- Quizzes: 18%
- Exams: 25% (each)
- Final exam: 30%

Final grades will be distributed in the standard manner, unless a curve is deemed necessary:

\[
A \geq 93\%, \quad A- \geq 90\%, \quad B+ \geq 87\%, \quad B \geq 83\%, \quad B- \geq 80\%, \\
C+ \geq 77\%, \quad C \geq 73\%, \quad C- \geq 70\%, \quad D+ \geq 67\%, \quad D \geq 63\%, \quad D- \geq 60\%, \quad F < 60%.
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Extra credit: The first student to identify errors in solutions posted online or homework problems assigned will receive extra points on quizzes.

Students with disabilities: If you have a disability for which you are or may be requesting an accommodation, please contact both myself (your instructor) and the Disability Resource Center in Building 124, Room 119, at (805) 756-1395, as early as possible in the term. Special testing accommodations require documentation and must be arranged at least one week in advance of an exam date.

Note: The syllabus may be modified by the instructor when the student is given reasonable notice of the modification.