Lectures: MWF 13:00 – 13:50, GFS 101
Instructor: Daniele Garzoni
Course Webpage: https://blackboard.usc.edu/webapps/login/
Email: garzoni@usc.edu
Office Location: KAP 424A
Office Hours: By appointment

Course Description: (4 units) Trigonometric functions; applications of integration; tech-
niques of integration; indeterminate forms; infinite series; Taylor series.
Prerequisites: Math 125.


Discussions: TTh, see your class schedule for the specific room and time.

Teaching Assistant: Brian Fan
Email: brianfan@usc.edu

Math Center: The Math Center is open from 8am to 7pm Monday-Thursday, and 8am
to 5pm on Friday. It is primarily run by math graduate students here at USC. The office
hours of your TA will also be held in the Math Center, although you can go to the Math
Center at any time it is open to ask for help.
COURSE LOGISTICS

Throughout the semester our course will make use of the following online systems:

- Blackboard as the main hub for all communication, links, and course materials.
- Gradescope for homework, quizzes and exams.

It is possible due to health and safety protocols (or some other reason) that an individual class lecture may be held remotely via Zoom. If this is the case, I will notify you in advance via Blackboard.

ASSIGNMENTS

Homework:

Each lecture a small number of homework problems will be assigned. These problems will be due immediately before the following lecture, and will be submitted through Gradescope. In case you need to miss a lecture, these problems can be viewed through the posted lecture notes on Blackboard. You are welcome (and encouraged) to work with other students in class on the homework, but you should submit your own work.

Any exercises submitted after the due date will receive half-credit, regardless of circumstances. Some homework assignments will be dropped at the end of the semester.
Quizzes: There will be weekly quizzes due at the end of each Thursday discussion section (except exam weeks), and submitted via Gradescope. The quizzes will be a mixture of take-home and in-person. You may work with other students on the take-home quizzes, but you should submit your own work. There are no make-up quizzes, but the lowest quiz scores is dropped.

EXAMS AND GRADING

Exams: All exams will be held in person during the scheduled times. If you cannot be present, you must contact me BEFORE the exam date to make other arrangements. If you no-show for an exam and attempt to contact me afterward, do not expect to be allowed a make-up exam.

There are three exams in this course: two midterms and a final. The midterms will be held during normally scheduled class times. The final exam is cumulative and written by the Math Department. It is university policy that no student may take the final exam early, or be allowed to skip it.

- **Exam 1**: Friday October 6
- **Exam 2**: Friday November 3
- **Final Exam**: Wednesday, December 6 2023, 2 – 4 pm.

Grading and Curves: Department guidelines for this course state that approximately half the letter grades should be A’s and B’s. So the overall class median grade will be roughly the division between B’s and C’s.

Your grade in the course is calculated as follows:

- Homework: 10%
- Quizzes: 10%
- Midterms: 45%
• Final Exam: 35%

How to calculate your current grade:

The grading scale for the course will be:

[92-100]= A
[90-92)= A-
[88-90]= B+
[82-88)= B
[80-82)= B-
[78-80)= C+
[72-78)= C
[70-72)= C-

Using this scale and the weighting of the components given above, you can calculate your current grade at any time in the course. Midterm scores will be curved, but there is no curve on HW or quizzes.

For instance, if you want to know your grade before the final exam and you have a 95% on your homework, 92% on your quizzes, your curved Midterm 1 score is 89%, and your curved Midterm 2 score is 81%, then your score before the final is:

\[
\frac{((93 \cdot 0.10) + 92 \cdot 0.10 + 89 \cdot 0.225 + 81 \cdot 0.225))}{0.65} = 87.3, \text{ which is a B.}
\]

OTHER POLICIES

Disability Services: Any student requesting accommodations based on a disability is required to register with the Office of Student Accessibility Services (OSAS) each semester. A letter of verification for approved accommodations can be obtained from OSAS. Please be sure the letter is delivered to me as early in the semester as possible.

https://osas.usc.edu/
213-740-0776 (phone)
213-740-6948 (TDD only)
213-740-8216 (fax)
OSASFrontDesk@usc.edu
**Academic Dishonesty**: All students are expected to maintain university standards on academic integrity. Please refer to the [Student Handbook](#) on the [Office of Academic Integrity](#) website for a description of these standards.
COURSE CALENDAR

We will cover the following sections of your textbook, on roughly the weeks listed below. This calendar is very tentative.

Week 01: Introduction, Inverse Trig Functions and Hyperbolic Functions, Sections 5.6 – 5.7.

Week 02: L’Hospital’s Rule, Integration by Parts, Sections 5.8, 6.1.

Week 03: Trig Integrals and Substitutions, Partial Fractions, Sections 6.2 – 6.3. Monday Labor Day. Sept 8 is the last day to add classes, or to drop without a “W”.

Week 04: Approximate Integration, Improper Integrals, Sections 6.5, 6.6.

Week 05: Area Between Curves, Volumes, Sections 7.1 – 7.2.

Week 06: Volumes between Cylindrical Shells, Review, Section 7.3.

Week 07: Arclength, Area of a Surface of Revolution, Sections 7.4 – 7.5. Exam 1 on Friday 10/6.

Week 08: Applications to Engineering, Sequences, Sections 7.6, 8.1. Thursday and Friday Fall Recess.

Week 09: Series, The Integral and Comparison Tests, Sections 8.2 – 8.3.

Week 10: Other Convergence Tests, Power Series, Sections 8.4 – 8.5.


Week 12: Taylor and Maclaurin Series, Applications of Taylor Polynomials, Sections 8.7 – 8.8. Friday Veterans Day. Nov 10 is the last day to drop with a “W”.

Week 13: Parametric Curves, Polar Coordinates, Sections 9.1, 9.3.

Week 14: Polar Coordinates, Section 9.4. Wednesday to Friday Thanksgiving Break.

Week 15: Review

Finals Week: Final Exam Wednesday, December 6 2023, 2 – 4 pm.