



Math 335 Course Outline

Prof. Todd Wittman

Course Objectives

- ▶ Learn advanced math topics used in upper-division engineering courses.
- ▶ Prerequisites: Math 231 & 234
- ▶ We cover 3 basic topics:
 - Chapter 9: Multivariable Calculus
 - Chapter 5: Ordinary Differential Equations
 - Chapters 12: Fourier Series
 - Chapter 13: Partial Differential Equations



My Contact Info

- ▶ Lecture
 - Sec 81: MW 5:15–6:30 Thompson 203
- ▶ Office Hours
 - Office: Thompson 327
 - MW 2:00–5:00pm, TuTh 4:00–5:00pm or by appointment
- ▶ Department Phone: (843) 953–5048
- ▶ Best way to contact me is by e-mail:
twittman@citadel.edu



Grading Scale

- Your grade will be calculated two ways.
- The system that gives the higher numerical score will be used to calculate your course grade.

3 Midterm Exams 45%
Final Exam 25%
Homework 30%

Drop lowest midterm score.
Best 2 midterm exams 30%
Final Exam 40%
Homework 30%

A	B	C	D
90%	80%	70%	60%



Midterm Exams (45%)

- ▶ Midterm Exams
 - 3 75-minute exams

	Date	Chapters
Exam 1	Mon 10/13	9
Exam 2	Mon 11/3	5
Exam 3	Wed 12/3	12–13



- I will use same strict grading system as on final
- Midterm exams are not cumulative
- No notes, calculators or electronic devices allowed.
- No make-up exams will be given for any reason.
- If you miss an exam, that exam will be dropped and you are automatically on the second grading system.

Final Exam (25%)

- ▶ Final Exam
 - Date TBA during finals week 12/9–12/15
 - The final exam is open notes.
 - No calculators allowed.
 - Strict grading system
 - Show all work
 - Give exact answers (not decimal answers)
 - e.g. $\frac{\pi}{2}$ is exact, 1.57 is not exact
 - Illegible or unexplained answers receive no credit



Why I Don't Allow Calculators on Exams

1. Calculators can interfere with learning the concept and intuition behind the math.
2. I would have to make the exams harder if I allowed calculators.
3. Exact answers are always better anyways.
4. I want to reinforce lower level mathematics (differentiation, integration, algebra).
5. Over-using a calculator may tie your knowledge to that device, making it harder to learn new ideas and technologies.

Homework (30%)

- ▶ Weekly homework must be submitted at the start of class **Wednesday 5:15pm**
- ▶ **After Thursday 5:00pm no late homeworks will be accepted, for any reason. This includes illness, family emergency, and school-related activities.**
- ▶ Do not procrastinate! Turn the HW in early if you think you may miss class.
- ▶ Homework will not be accepted by e-mail.
- ▶ The lowest homework score will be dropped.

Homework (30%)

- ▶ Prepare homework carefully
 - Must be written on print-out. Do not attach extra pages.
 - All pages must be stapled. (A paperclip is not a staple.)
 - Must be neat and legible.
 - Show all work. Mysterious answers will receive a zero.
 - Give exact answers, not "calculator answers".
 - Always work in pencil.
- ▶ For additional practice, each HW lists Practice Problems. These are odd-numbered problems from your textbook.

Other Stuff

- ▶ Attendance Policy
 - I expect you to attend class regularly and also to work hard outside of lecture.
 - Missing class is not an excuse for failing to turn in HW.
- ▶ Academic Honesty
 - You may work together on HW, but don't just copy someone else's answers.
 - No collaboration of any kind allowed on exams.
 - Any cheating will result in automatic zero and disciplinary action in concordance with the Honor Code.
- ▶ Disability Services
 - Contact me soon if you require accommodations.
- ▶ Course Withdrawal
 - Monday, October 13th is last day to withdraw from course with "W" grade

Resources

- ▶ Textbook
 - "Advanced Engineering Mathematics" by Zill & Dewar, 5th ed.
 - Read the textbook!
- ▶ Course Webpage
 - macs.citadel.edu/wittman/335
 - Check the course webpage often.
 - All handouts will be put online.
 - Often links to supplementary materials.
 - If you miss a class, the notes and homeworks are online.
 - You can check your current grades online.



Outside the Classroom

- ▶ After every lecture you should...
 1. Compare your notes to the online notes.
 2. Check the website for any additional materials (handouts, Paul's Notes, videos).
 3. Read the designated section in the textbook.
 4. Work on the HW, including practice problems.
- ▶ Keep your binder organized. You'll be glad you did on final exam day.
- ▶ Get to know other students. Study groups are a great way to review material.