

Math 322 –Section 001 – Spring 2013

Applied Mathematical Analysis

Professor: Gerardo Hernández **Office:** 809 Van Vleck **Class schedule:**
Email: hernandez@math.wisc.edu **Office Hours:** - MWF 11:00-11:50 AM
- WF 10:00 AM-11:00 AM VAN VLECK B119
- Th 12:00 PM - 1 PM

Phone : 608-262-3220

Personal Website: <http://www.math.wisc.edu/~hernande/>

Text: *Applied Partial Differential Equations with Fourier Series and Boundary Value Problems*. Richard Haberman. Pearson Prentice Hall. Fourth edition.

Exam Schedule :

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|--------------------|-----------|-----------------------|------------------|-----|
| Midterm 1: | March 1st | Time: 5:30 - 7:00 PM | ROOM: TBA | 20% |
| Midterm 2: | April 5 | Time: 5:30 - 7:00 PM | ROOM: TBA | 20% |
| Final exam: | May 16 | Time: 12:25 - 2:25 PM | ROOM: TBA | 40% |

Dates for the exams are fixed. Make plans now to be certain these dates are in your calendar. Note that travel is *not* a sufficient excuse to have an exam scheduled on a different day.

Prerequisites: The prerequisite for Math 322 are Math 319 and Math 321.

Course content and description: This is the second semester in the standard sequence in applied analysis at the math department. This sequence is aimed to applied math majors and students in the sciences and engineering who need to have knowledge of analysis and its applications beyond the standard calculus sequence. A good introductory course in the study of partial differential equations and boundary value problems.

Weekly Problem Sets: Homework will normally be due on Fridays and is **due at the beginning of class**. Homework will be available on-line at <http://www.math.wisc.edu/~hernande/> approximately one week prior to the due date.

Please write your name clearly on each homework set, stapled please!

Grading of Homework: The homework scores will count for 20% of the grade. The lowest homework score will be dropped.

Late Policy: Homework turned in after the beginning of class will be considered late and will be graded at 80% credit. Late homework will be accepted until 5 PM on the due date (no credit thereafter). **NO EXCEPTIONS!** The policy is intended to keep everyone as current as possible.

Calculators: Calculators and/or computer software may be used to help with homework problems but are not permitted during exams.

Expectations: You are expected to spend six hours working on math outside of class. You are expected to read the appropriate text before coming to class. In order to fully understand the material and do well in the course, it is vital that you stay on top of your reading and homework assignments. The number of problems we assign is probably not enough for most students. It is your responsibility to find and work additional exercises as needed. The six hours (minimum) of studying includes reading the texts (before and after the material is covered in lecture), writing up problems to turn in for feedback, working additional problems as needed, formulating coherent questions for me, and reviewing.

In Class: You are required to come to class. Important announcements will be given in class. Should you miss a class, please be sure to get notes and other important information from a classmate.

No cell phones, ipods, computers or other gadgets may be used in class. Texting is strictly prohibited. Please raise your hand to ask and answer questions and be quiet and respectful when others are talking.

Grading :

Midterm 1: 20 %
Midterm 2: 20 %
Final exam: 40 %
Homework: 20%

Getting Help: I will hold regular office hours throughout the semester. Whenever you have a question (even a homework question!) or need assistance in the course, you should see me right away. You should also always feel free to send me an email when you have a question about the course or the material. If the question cannot be answered over email, you might be instructed to come to office hours or to set up an appointment. There are also other places on campus to go for help. Other resources include:

MathLab: Free drop-in tutoring in room B227 Van Vleck, beginning in the second week of classes. This lab does not tutor 322, but might be useful for those who need help with the background material <http://www.math.wisc.edu/~matlab/>

GUTS: Free small group, drop-in, and individual tutoring at various locations on campus. <http://guts.studentorg.wisc.edu>

Private Tutors: Cost varies. See the receptionist on the second floor of Van Vleck (or check the web) for a list of tutors <http://www.math.wisc.edu/tutors>

Note: Any student with a documented disability should contact me as soon as possible so that we can discuss arrangements to fit your needs.

Please feel free to ask me any questions. I look forward to working with you!