

MAT341: REAL APPLIED ANALYSIS

1. ABOUT THIS COURSE

This course is an introduction to Fourier series and to their use in solving partial differential equations. The course focuses on the heat equation, the wave equation and Laplace's equation; these equations are important in applications and also illustrate important properties of p.d.e.'s in general.

2. TEXT

Boundary Value Problems and Partial differential Equations, by David L. Powers. 6th edition

3. HOMEWORK

Each week there will be homework questions assigned. They will be collected the next Tuesday.

4. EXAMINATIONS AND GRADING

There will be two Midterm held during class, and a final exam. The dates and times are listed below; the locations will be announced later. Success on the exams will require correct and efficient solutions to the more difficult of the homework problems.

What	When		% of Final Grade
Midterm 1	TBA	TBA	25%
Midterm 2	TBA	TBA	25%
Final Exam	TBA	TBA	35%
Homework	weekly		15%

Make sure that you can attend the exams at the scheduled times; **make-ups will not be given**. Resolve any conflicts *now*. If one midterm exam is missed because of a serious (documented) illness or emergency, the semester grade will be determined based on the balance of the work in the course.

5. OFFICE HOURS

The office hours are listed on the *Office Hours* section on the mat 341 webpage

<http://www.math.sunysb.edu/marco/>

You can also make appointments at other times.

6. DISABILITIES

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services at

<http://studentaffairs.stonybrook.edu/dss/>

or (631) 632-6748. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:

<http://www.stonybrook.edu/ehs/fire/disabilities.shtml>

7. ACADEMIC INTEGRITY

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is **always** wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at

<http://www.stonybrook.edu/uaa/academicjudiciary/>

8. CRITICAL INCIDENT MANAGEMENT

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.