

MAT 341 - APPLIED REAL ANALYSIS

Summer 2016

Instructor:	Yu Zeng, 2-116 Math Tower	Time:	MWTh 6 - 8:15pm
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Course Description: This course is an introduction to Fourier series and to their use in solving partial differential equations (PDEs). We will discuss in detail the three fundamental types of PDEs: the heat equation, the wave equation and Laplace's equation.

Textbook: David Powers, Boundary Value Problems and Partial Differential Equations, 6th ed., Elsevier (Academic Press), 2010.

Office Hours: W 5-6pm at 2-116 Math Tower; M 4-6pm at MLC.

Prerequisite: C or higher in the following: MAT 203 or 205 or 307 or AMS 261; MAT 303 or 305 or AMS 361. Advisory Prerequisite: MAT 200.

Homework: Assignments will be posted on the Blackboard every Monday and will be collected in Monday class of the following week. Late homework will not be accepted.

Grading Policy: Homework (40%), Final (60%).

Exam:

Final Exam Thursday, July. 7 2016

Extra help: The Math Learning Center (MLC) is located in Math Tower S-240, and offers free help to any student requesting it. A list of graduate students available for hire as private tutors is maintained by the Undergraduate Mathematics Office, Math Tower P-143.

Disability Support Services (DSS): If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations, if any, 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>

Academic Integrity: 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. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

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. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.