Instructor. Remus Radu
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   Office: Math Tower 4-103, Phone: (631) 632-8266
   Office Hours: TuTh 1:30-2:30pm in Math Tower 4-103, or by appointment
               Tu 12:30-1:30pm in MLC

Teaching Assistant. Gao Chen
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   Office Hours: M 1-2pm in Math Tower 3-103 & M 2-3pm and W 1-2pm in MLC

Teaching Assistant. Yu Zeng
   Email: zeng@math.sunysb.edu
   Office Hours: W 12:00-1:00pm in Math Tower 2-116 & M 12-2pm in MLC

Lectures. TuTh 2:30-3:50pm in Library E4315.

Blackboard. Grades & course administration will take place on Blackboard. A detailed weekly
schedule of the lectures and homework assignments and solutions will be posted on Blackboard.

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. These equations
are important in many applications from various fields (mathematics, physics, engineering,
economics, etc.) and illustrate important properties of PDEs in general.

Prerequisites. C or higher in the following: MAT 203 or 205 or 307 or AMS 261; MAT 303 or
305 or AMS 361. It is important to be familiar with the basic techniques in ordinary differential
equations.

Textbook. The following textbook is required:
   David Powers, Boundary Value Problems and Partial Differential Equations, 6th ed.,

Exams. There will be two midterms and a final exam, scheduled as follows:
   • Midterm 1 – Thursday, March 5, 2:30-3:50pm, in Library E4315.
   • Midterm 2 – Thursday, April 16, 2:30-3:50pm, in Library E4315.
   • Final Exam – Monday, May 18, 11:15am-1:45pm, TBA.

There will be no make-up exams.

Grading policy. Grades will be computed using the following scheme:
   Homework     20%
   Midterm 1     20%
   Midterm 2     20%
   Final Exam    40%

Students are expected to attend class regularly and to keep up with the material presented in
the lecture and the assigned reading. It is generally useful to read the corresponding section in
the book before the lecture. There will be weekly homework assignments; the lowest homework
score will be dropped. You may work together on your problem sets, and you are encouraged
to do so. However, all solutions must be written up independently.
Extra Help. You are welcome to attend the office hours and ask questions about the lectures and about the homework assignments. In addition, math tutors are available at the MLC: http://www.math.sunysb.edu/MLC.

Information for students with disabilities. 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, or at the following website http://studentaffairs.stonybrook.edu/dss/index.shtml. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

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 is 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/uaa/academicjudiciary.

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 University Community Standards 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. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.