

MAT 341 - ONLINE - SUMMER II

Class time : TBD.

Instructor : Mohamed El Alami.

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Office hours : Mondays 1:00pm, or by appointments.

Course description : This course is an introduction to partial differential equations through three classical examples: The Laplace equation, the wave equation and the heat equation. The main focus will be on the resolution of these types of PDEs using Fourier series. This is an online course.

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

Textbook : (Recommended) Boundary Value Problems and Partial Differential Equations by David L. Powers.

Course tools : The online nature of this course requires access to a computer, a viable internet, and access to Zoom. Synchronous lectures will be delivered via Zoom during scheduled class times. The lectures will be recorded and made available to students, and notes will be uploaded to Blackboard.

Homework : Homework will be assigned every time we finish an important part of the course. Students may work in groups to solve homework problems. However, the work each student submits for grading must reflect their own effort, and should acknowledge any contributions from external sources.

Examination : We will have one midterm and one final examination. They are scheduled as follows:

Midterm : Friday, June 19thth.

Final Exam : Friday, July 3rdth.

There will be no make-up exams, students who are not able to attend the exam for medical, or other justified and documented reasons, should notify the instructor as early as possible.

Quizzes : There will be a quiz at the end of every class meeting, except the day of the midterm and the day of the final exam.

Grading scheme: Homework 10% ; Quizzes 20% ; Midterm 30% ; Final 40%.

Academic Integrity : (Undergraduate Bulletin) 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. Academic dishonesty can range from simple breach of class or University guidelines, such as using a cell phone in an exam, to very serious cases which may result in expulsion. All students found guilty of academic dishonesty are required to take the University's course on academic integrity (the "Q Course") and additional penalties including suspension or expulsion may also be levied. Students who have been found guilty of academic dishonesty and, as a consequence, have been assigned a Q grade may not graduate with University honors.

Responsibilities in the Classroom : (Undergraduate Bulletin) Students are expected to attend class regularly unless other arrangements are made; arrive for class on time and leave the classroom only at the end of class; engage in class discussions and activities when appropriate; exhibit classroom behavior that is not disruptive of the learning environment; secure and turn off all electronic communications and entertainment devices during class time unless otherwise directed by the course instructor. Any use of a cell phone or other unauthorized electronic device during an examination may lead to an accusation of academic dishonesty.

Critical Incident Management : (Undergraduate Bulletin) 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.

Disability Support Services : (Undergraduate Bulletin) 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.