

UCONN - Math 3435 - Spring 2018

Course basics

Course: Math 3435, Section 1

Course Name: Partial Differential Equations

Semester: Spring 2018

Meeting Time: MWF 12:20pm - 1:10pm

Classroom: MONT 421

Office Hours: M 1:15pm-2:15pm and W 2pm-3pm at MONT 304.

Instructor Contact Info

Murat Akman

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Description of the Course: Introduction to PDEs (Chapter 1), First Order PDEs (Chapter 2), The Heat Equation (Chapter 3), Fourier Series (Chapter 4), Sturm-Liouville Theory (Chapter 4), The Wave Equation (Chapter 5), Laplace's Equation (Chapter 6), Fourier Transforms (Chapter 7).

Required Text: **Basic Partial Differential Equations** by David D. Bleecker and George Csordas. ISBN 1-57146-036-5, 2003, International Press of Boston, Inc.

Course website: <http://www.math.uconn.edu/~akman/math3435s18/index.html> for homework assignments and announcements.

HuskyCT: huskyct.uconn.edu for class announcements and grade sheet.

Grading policy: Grades will be calculated based on weekly homework assignments, two midterms and the final exam. Your cumulative average will be based on;

Homework: %30, **1st Exam:** %20, **2nd Exam:** %20, **Final Exam:** %30.

Important dates: Please check Academic calendar of UCONN for Spring Semester 2018 at <https://registrar.uconn.edu/academic-calendar/spring-2018/> for important dates.

1st Exam: February 21, Wednesday, **2nd Exam:** March 28, Wednesday, **Final Exam:** To be announced by the registrar office.

Up to %5 Bonus: [**Deadline: February 23 by the class**] If you are interested in getting extra points, find a partial differential equations (other than Heat, Wave, and Laplace's equation) which has an application in your major or has a real life application. Then give a 20-minute talk about the equation in the class near the end of the semester. Based on your talk, you will get up to %5 bonus.

Attendance: You are expected to attend classes regularly. You are responsible for everything announced in class including changes in the course syllabus.

Homework: Homework assignments will be announced on the course website every week on Fridays and will be collected in class a week after that (due next Friday). The first homework will be assigned on the first week of the semester on Friday. Late homework will *NOT* be

accepted and there will be *NO exceptions* to this policy. If you will not be in class when homework is due, you can hand in your assignment early or e-mail me an electronic copy by the beginning of the class it is due. Homework will cover the concepts of that week.

You are encouraged to work together on homework problems, but you must write up your solutions **independently**. All students are responsible for writing their own written solutions, carefully citing and acknowledging sources. Homework solutions must be presented in an organized, legible, and comprehensible fashion, or will be marked down.

Calculators: Graphing calculators (such as TI 82, 83, 85 or 86) are allowed but not necessary. But any calculators that can perform symbolic operations (such as TI 89 or 92) are NOT allowed.

Exams: There will be 3 exams (two in class exams and one final exam) during the entire semester. The final exam will be during the finals week and it will be announced later in the semester. **MAKE UP EXAMS** will be given only in case of a valid excuse (See Valid Excuses below). See also rules on exam rescheduling <http://guide.uconn.edu/student-interactions/rescheduling-exams/>.

Valid Excuses: The only valid excuses for missing an exam are a family-related crisis, a serious health problem, or you are on official UConn business travel. If this is the case, you will need an official document from a university officials verifying your situation. In such instances, you should notify me as soon as possible. If you are a student athlete and if your team travel schedule conflicts with a scheduled exam please let me know ahead of time.

Letter grades: After your average is calculated, letter grades will be assigned based on the standard grading cut-offs. I may adjust the cut-offs, but it is guaranteed that the cut-offs will NOT be adjusted to make it harder to get a better grade.

Syllabus Revision: The instructor reserves the right to make any changes in this syllabus at any time. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on the course website. It is your responsibility to keep up with the changes.

Academic Integrity Policy: All graded material must be your original work. You are expected that you are aware of your individual responsibilities under the academic integrity policy of UConn at <http://community.uconn.edu/academic-integrity-faculty-faq/>. Violations of these policies will not be tolerated and will result in serious consequences and disciplinary action.

Special Needs: Students with disabilities are encouraged to share, in confidence, information about needed specific course accommodations. You may also contact the Center for Students with Disability as well <http://www.csd.uconn.edu/>.