Fall 2015

MATH 6224

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University of New Orleans

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Fall 2015 UNO Course Syllabus
MATH 6224 - Partial Differential Equations, II

Class: Math Building 123, TTh 11:00am – 12:15pm.

Professor: Ralph Saxton

Office location and office hours: Math 230 or Math Tutor Center, Tue./Thurs. 7-8pm, Wed. 2-6pm.
Phone number: 504-280-6130
Email address: rsaxton@uno.edu


Moodle: You can access Moodle at: https://uno.mrooms3.net/login/index.php
Items of interest for the class (this syllabus, etc.) may be posted on Moodle.

Course prerequisites - Math 4224 or consent of the department.

Grading – There will be a midterm test, an oral presentation and a written project, each contributing one third of the final grade.

Other – Students should obtain copies of either MikTeX (a LaTeX environment for Windows: miktex.org) or MacTeX (LaTeX for OSX: www.tug.org/mactex/) for mathematical typesetting. “Beamer” is a LaTeX document class which can be used for the presentation, with pdfLaTeX used in the project. These programs require familiarity and should be obtained early on.

Student Learning Outcomes - The object of the course is for students to become proficient in advanced methods for understanding both qualitative, and where available, exact, properties of solutions to linear and nonlinear partial differential equations. This is a prerequisite for interpreting the many physical and geometric phenomena which can be modeled by such equations. Topics will include well- and ill-posed problems - in the sense of Hadamard (i.e. existence, uniqueness and continuous dependence on data), regularity of classical and weak solutions, representation formulae, fundamental solutions, and function-theoretic techniques.

Expectations of students - Students are expected to read the textbook independently beyond the material covered in the lectures. The midterm will cover only topics which have been covered during lectures, but students are expected to select topics for their final presentation and project directly from Evans, either extending some of the lecture material or presenting subject material not touched on in the lectures. Students are also expected to arrive on time, remain for the full class session, conduct themselves in a respectful manner to other students and the instructor and not use cell phones during class.

Academic Integrity - Integrity of scholarship is essential for any academic community. The University expects that both faculty and students to honor this principle and so protect the worth of University intellectual work. For students, this means that all academic work must be done by the individual to whom it is assigned, without unauthorized aid of any kind. Academic dishonesty includes, but is not limited to, the
following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at http://www.studentaffairs.uno.edu

**Student Conduct** - The University of New Orleans (UNO) is a multicultural community composed of diverse students, faculty and staff. UNO will not tolerate discrimination or harassment of any person or group of persons based on race, color, religion, sex, disability, national origin, age, sexual orientation, marital or veteran status or any other status protected by law. Each member of the university is held accountable to this standard, which is strongly reflected in this code.

**Accommodations for Students with Disabilities** - It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to [http://www.ods.uno.edu](http://www.ods.uno.edu).

**Important Dates**

- Last day to adjust schedule w/out fee ............ 08/18/2015
- Semester Classes Begin............................. 08/19/2015
- Last day to adjust schedule w/fee, or withdraw with 100% refund .............. 08/25/2015
- Last day to apply for December commencement 09/25/2015
- Final day to drop a course or resign ................ 10/14/2015
- Mid-semester examinations ....................... 10/05-10/09/2015
- Final examinations .................................. 12/07-12/11/2015
- Commencement .................................... 12/18/2015

*Note: check Registrar’s website for Saturday and A/B sessions, and for items not listed here: [http://www.registrar.uno.edu](http://www.registrar.uno.edu)*

**Fall Semester Holidays**

- Labor Day ............................................. 09/07/2015
- Mid-semester break .............................. 10/15-10/16/2015
- Thanksgiving ...................................... 11/26-11/27/2015

**Graduate Policies**

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook: [http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf](http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf)

**Academic Dishonesty Policy**


**Safety Awareness Facts and Education**

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: [http://www.uno.edu/student-affairs-enrollment-management/](http://www.uno.edu/student-affairs-enrollment-management/)
UNO Counseling Services and UNO Cares
UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at http://www.uno.edu/counseling-services/. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through http://www.uno.edu/fye/uno-cares.aspx.

Emergency Procedures
Sign up for emergency notifications via text and/or email at E2Campus Notification: http://www.uno.edu/ehso/emergency-communications/index.aspx. All emergency and safety procedures are explained at the Emergency Health and Safety Office: http://www.uno.edu/ehso/.

Diversity at UNO
As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university's efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. http://diversity.uno.edu/index.cfm

Learning and Support Services
Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at http://www.uno.edu/lrc/.

Affirmative Action and Equal Opportunity
UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO's compliance with federal and state regulations regarding EEOC in its Policies and Resources website: http://www.uno.edu/human-resource-management/policies.aspx