Instructor: Hakima Bessaih, 210 Ross Hall, Ext. 6213.

URL: http://www.uwyo.edu/bessaih/

Office Hours: TWR 2:00-3:00pm and by appointment.

Class time & room: TR 8:10am-9:25pm in EN2108.


Prerequisite: Grade C or better in MATH2310 (Applied Differential Equations I) or Math2210 (Calculus III).

Goals: The primary goals of this course are to master the fundamental concepts and techniques of differential equations, and to develop problem solving skills.

Course Description: The course is a continuation of Applied Differential Equations I. It includes series solutions of second order linear equations, systems of first order equations, partial differential equations and Fourier series and boundary value problems. Stability for some nonlinear differential equations will be also studied. The course will focus on material from chapters 5, 7, 9, 10 and 11 of the text.

Tentative List of Topics

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<th>Topics</th>
<th>Chapter</th>
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<td>Series solutions of second order linear equations</td>
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<td>Systems of first order linear equations</td>
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<td>Nonlinear differential equations and stability</td>
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<td>Partial differential equations and Fourier series</td>
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Grading policy.

- **Final exam:** The final exam will take place on **December 8th 2011, 8:00-10:00am** in EN2108. Look up to the final examination schedule: http://www.uwyo.edu/registrar/
  The final exam counts for **20%** of the final grade.

- **Midterms:** There will be two in class Midterm exams tentatively scheduled for **06-October-2011** and **15-November-2011**. Each midterm counts for **20%** of the final grade. Make-up tests, for those who miss tests, will only be granted in cases of verifiable illness or the most extreme situation (at my discretion). Please contact me in advance of such a situation.
• **Homeworks:** Homework sets will be assign approximately every week and will be posted on the course webpage and will be submitted at a specific due date (usually a week later) at the beginning of the lecture. You are encouraged to discuss the homework with other students however, please do not copy anyone’s else work. This might affect your grade. **No late assignments will be accepted.** The homework will count for **40%** of the final grade.

• **Attendance:** I strongly recommend class participation and attendance and consider this activity essential in determining borderline grades.

• **Grading scheme for the final grades:** Grade A: 90-100, Grade B: 80-89, Grade C: 70-79, Grade D: 60-69, Grade F:<60.

• **Disability statement:** If you have a physical, learning, or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to, University Disability Support Services (UDSS) in SEO, room 330 Knight Hall, 766-6189, TTY: 766-3073.

• **Academic honesty:** UW Regulation 6-802. The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty is unacceptable to our community and will not be tolerated. Teachers and students should report suspected violations of standards of academic honesty to the instructor, department head or dean. Other University regulations can be found at: http://uwadmnweb.uwyo.edu/legal/universityregulations.htm

The information in this syllabus is subject to change as the course proceeds. If there are changes, they will be announced repeatedly in class.