Instructor. Hakima Bessaih, Ross Hall 210, bessaih@uwyo.edu

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

Office Hours: TR 11:00pm-11:50am, W 2:00-3:00pm and by appointment.

Class time & room. TR 9:35am-10:50am in AG 1030.


Course Description. Differential Equations arise naturally in physics and engineering and many other areas. We will focus in this course on how to solve them explicitly and numerically. We will sometimes use the software package Maple for visualization in class.

Prerequisites. Grade C or better in Math 2205.

Tentative list of topics.

• Chapter 1: Introduction (Sect 1.1-1.3).
• Chapter 2: First Order Differential Equations (Sect 2.1-2.9)
• Chapter 3: Second Order Linear Equations (Sect 3.1-3.9)
• Chapter 4: High Order Linear Equations (Sect 4.1-4.2)
• Chapter 6: The Laplace Transform (Sect 6.1-6.6)

Grading Policy.

• Final exam: The final exam takes place on 10-May-2016, 10:15am-12:15pm. The final exam counts for 25% of the final grade.
• **Midterms:** There will be two midterms exams tentatively scheduled for the **25-February-2016** and **07-April-2016**. Each midterm will count for **20%** of the final grade.

• **Homework:** There will approximately weekly homework assignments. Most of the assignment will be performed online through WebWork: http://webwork.uwyo.edu/webwork2/Math-2310-03-bessaih/

  A few homework problems will be assigned where you will be asked to write down complete solutions to problems. They will be downloaded from the course homepage: http://www.uwyo.edu/bessaih/. Homework problems are due on the assigned days prior to the lecture. No late homework will be graded. Homework counts for **35%** of the final grade (**15%** for the Webwork and **20%** for the classical homework).

• **Attendance/Participation:** I strongly recommend class attendance and participation and I will use this activity in determining borderline grades.

• **Make-up exams:** There will be **No** make-up exams for unexcused absences. In case that you are unable to attend an exam, you need to provide me with a University excused absence. Note that it is required to discuss any special arrangement prior to the absence. Make-ups for the exams will be given only in extraordinary cases.

• **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.

• **Supplemental Instruction:** (SI) (SI) and drop-in tutoring is offered this semester with Reggie DePiero in the Math Assistance Center (MAC). Please join the SI WyoGroup for this course for more information, worksheets, receive future emails, and get the semester schedule. Get there through the following link: http://tinyurl.com/math2310si

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