Syllabus for Math 3331
Ordinary Differential Equations

Instructor: Dr. Mark Tomforde
Office: 601 PGH
Instructor Web Site: www.math.uh.edu/~tomforde
Course Web Site: www.math.uh.edu/~tomforde/Math3331.html

Office Hours: Monday 10–11AM, Friday 10–11AM (or by appointment)

Note About Office Hours: I encourage you to come by my office if you have any questions, need help with homework problems, or would just like to talk about the material. If for some reason you are unable to make it to Office Hours, you are welcome to email me to set up an appointment for another time.

Meeting Times: Lecture: MWF, 9:00AM–10:00AM in 301 AH.

Course Description: This class serves as an introduction to Ordinary Differential Equations (ODEs). Topics include: Existence, uniqueness and stability of solutions; first and second order ODEs; applications; the Laplace transform; numerical methods; systems of ODEs; solutions of linear equations with constant coefficients; qualitative results. This course may be more abstract than courses you’ve had in the past. More emphasis will be placed on understanding the topics and applying them in different situations, rather than in simply doing rote calculations. Communicating your understanding and writing effective arguments will be a large component of the course.


Course Web Page: The course web page is located at

www.math.uh.edu/~tomforde/Math3331.html

On the course web page you will find the homework as it is assigned, as well as a copy of this syllabus, exam dates, and announcements as they are made.
Grading: The final grade for the class will be determined as follows:

- Class Participation: 10%
- Homework: 25%
- Exam 1: 20%
- Exam 2: 20%
- Final Exam: 25%

Attendance: It is vital to attend every lecture and pay attention. Some lecture material does not appear in the text. Questions on the exams will be drawn from homework, reading, and lectures. I also encourage you to ask questions and participate in class. As stated above, 10% of your final grade will be based on class participation.

Reading: Reading assignments will be given weekly on the course web page. Completing the reading assignments is just as critical as doing the written homework.

Homework: A list of homework problems will be given every week on the course web page. Homework will be due on Wednesdays and returned on Fridays. **Late homework is not permitted for any reason.** Your lowest homework score throughout the term will be dropped to allow for missed assignments. Expect to spend approximately three hours working on homework outside of class for every hour spent in class. There is a graduate student grader for the course. If you have any issues with the way homework or a particular problem is graded, please contact me.

With regards to the homework that is turned in, the following policies will be in effect:

- Homework without a name will not be accepted.
- Homework will not be accepted by email.
- Write legibly, and use only one side of the paper. Leave enough room for the grader to make comments.
- Your homework should be stapled in the upper-left-hand corner.
- Homework should be written on standard-sized paper (8.5” x 11”), with no “fringe” running down the side as a result of the paper having been torn out of a spiral notebook.
• Solutions to homework should be written up in sequential order. For example, if Problems #6, 12, and 14 are assigned, then your write-up should contain Problem #6 first, Problem #12 second, and Problem #14 third.

• Homework is due at the beginning of class on Wednesdays. Late homework will not be accepted. Homework is considered late once I have started lecturing.

• Homework that is not picked up within two weeks of the date it is handed back will be discarded.

• Your lowest homework score throughout the term will be dropped when calculating your final grade.

Doing the homework is essential. Remember . . .

"You learn mathematics by doing mathematics."

Exams: There will be two exams and one final.

Exam 1: Wednesday, Sept. 28
Exam 2: Wednesday, Oct. 26
Final: Monday, Dec. 12, 8AM.

Makeup Policy: In general, not turning in homework when it is due or not being present for an exam results in a score of zero, and you will not be allowed to make up the work. Exceptions may be made in the case of extreme circumstances, such as a documented, serious illness. In the event that you cannot be present to turn in homework or take an exam on the day it is held you need to speak to me in advance, and make every attempt to do the work before (and not after) the rest of the class.

No Class: There will be no class on Friday October 14, because I will be out of town attending a conference.

Policy on Incompletes: Incompletes are given only in very unusual circumstances, and never just to prevent a bad grade or provide the student with more time to prepare for an exam.
Honor Principal: University of Houston students are expected to adhere to the Academic Honesty Policy (see the Student Handbook for more details). In this course this shall mean the following: Homework can and should be worked on and discussed with others. However, the write-up should be independent and in your own words. In addition, exams shall be worked on independently and without the use of your textbook, homework, or class notes. In addition, if you are aware of anyone who is cheating or receiving unfair, outside assistance, you are honor bound to inform the instructor of what is occurring.

Anyone caught cheating will receive a failing grade in the course and be turned over to the department chair and dean for further disciplinary action.

Special Needs: Any student with a disability or chronic health problem for whom special accommodations would be helpful is encouraged to discuss with the instructor the types of assistance that might be offered.