Math 5311 – Advanced Engineering Mathematics  
Spring 2014

Professor: Dr. Deborah Koslover  
Office: RBN 4010

Office Hours: Monday, Wednesday and Friday 11 AM-12 PM and Monday and Wednesday 5:00-6:00 PM. These times will be set aside for your exclusive use. Additionally, any other time, if my office door is open, you are welcome to come in for help. If my door is closed, I am probably busy and you should come back later. I will rarely be available on Tuesdays and Thursdays as they are my research days. If you cannot come by during office hours, you can call or email to make an appointment.

Telephone Number: 903-566-7143  
Email: dkoslover@uttyler.edu (preferred)

Class Meeting Time: 6:30 - 7:45 MW  
Room: RBN 4024


Prerequisites: Ordinary Differential Equations and Linear Algebra

Course Description: Advanced mathematical concepts needed in the study of graduate engineering. Topics include partial differential equations, Fourier analysis, complex analysis and optimization.

Student Learning Outcome:
1. State major theorems, facts, and definitions from the fields of Fourier analysis, partial differential equations, complex variables and optimization.
2. Utilize major theorems, facts, definitions, and methods to solve advanced applied problems in mathematics.
3. Model real-world problems and clearly present a written solution in keeping with the written tradition of the discipline.

Attendance Policy: Attendance is mandatory and attendance records will be kept. Notify the professor in advance if you must miss a class, be late for a class or leave early. (Official University Policy: Class attendance is the responsibility of the student. When a student has a legitimate absence, the instructor may permit the student to complete missed assignments. In many cases class participation is a significant measure of performance, and non-attendance may adversely affect a student’s grade. When a student’s absences become excessive, the instructor may recommend that the student initiate a withdrawal.)

Evaluation: There will be four tests, each worth 25% of your grade.

Homework: Homework will be assigned daily. However, homework will not be collected. Solutions will be posted on Blackboard. Do not expect to pass this class unless you do all of the homework. Reading through the solutions will not be sufficient.
Test Dates:
- **Test 1**: February 12
- **Test 2**: March 5
- **Test 3**: April 9

**Final Exam Date:** Monday, May 5, 6:00 – 8:00 PM This will be our fourth test and will be worth the same amount as the other three. You must take your exam on this day. Do not buy airline tickets to start your summer break early.

**Test Policies:** There will be a seating chart for each test. It will be posted on Blackboard prior to the test and in the classroom on the day of the test.

All backpacks and other personal items, including cell phones will be placed at the front of the room. Anyone caught with a cell phone will receive an F on the exam. It is preferred that you do not bring your personal items and cell phone to the classroom.

Non-graphing calculators will be allowed. You will not be allowed to use your cell phone as a calculator.

**Note:** Your grade will depend exclusively on the scores you receive on your four exams. No exams will be dropped. No extra credit or special assignments will be given. **No exceptions.**

**Make-ups:** Make-ups for **documented** absences that are **required** as part of a UT Tyler obligation (e.g. athletes participating in an event, participating in a debate contest, etc.) or for religious observation will be granted. For all make-ups of this type, prior notification of at least one week and documentation are required. Other make-ups are granted only in extreme cases and at the sole discretion of the instructor.

**Blackboard:** Blackboard will be used for posting of homework assignments, a general calendar, important announcements, needed documents and a copy of this syllabus.

**Cell phones, IPODs and other electronic devices:** Please set your cell phones and pagers to silent mode. If you are expecting an emergency call, please notify the professor in advance, sit near the door, and answer the phone outside. You will not be allowed to wear an IPOD or other electronic devices during an exam.

**Important Dates:**
- January 15 - Class Cancelled
- January 20 – MLK Day Holiday, no class
- January 27 – Census Date
- February 12 – Test 1
- March 5 – Test 2
- March 10 – 14 – Spring Break
- March 26 – Drop Day
- April 9 – Test 3
- May 5 - Study Day
- May 5 – Final Exam, 6-8:00 PM
University Policies: For University policies concerning Students’ Rights and Responsibilities, Grade Replacement/Forgiveness, State-Mandated Course Drop Policy, Disability Services, Student Absence due to Religious Observance, Student Absence for University-Sponsored Events and Activities, Social Security and FERPA Statement, please see http://www.uttyler.edu/academicaffairs/syllabuspolicies.pdf