Math 673
Applied & Industrial Mathematics I
Class Policies

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Office Hours: MWF 2:00 – 3:00

Spring 2005
W: 7:00 – 9:40 p.m., Stephens Hall 206
Section: 101

Prerequisites: MATH 265 (Elementary Linear Algebra) and MATH 374 (or MATH 574) (Differential Equations) and MATH 379 (or MATH 579) (Advanced Calculus) and MATH 475 (or MATH 577), (Complex Analysis) or consent of chairperson.


Learning Objectives:
1. To understand the basic theory of Fourier transforms, in one and several variables. Applications to ordinary and partial differential equations, integral equations, and the evaluation of definite integrals.
2. To understand the basic theory of Laplace transforms, in one and several variables. Applications to ordinary and partial differential equations, integral equations, and the evaluation of definite integrals.
3. To understand the basic theory of Mellin, Hankel, and Hilbert transforms, in one and several variables. Applications to ordinary and partial differential equations.
4. Further topics as time permits.

Academic Integrity: The naturae of higher mathematics requires that students adhere to accepted standards of academic integrity. Violations of academic integrity include cheating, plagiarism, falsification and fabrication, complicity in academic dishonesty, personal misrepresentation and proxy, bribes, favors and threats. Cheating is a serious offense that will have grave consequences for your academic life.

Students who violate these standards will either fail the course outright or, at the instructor’s discretion, may merely receive a zero on any assignment for which the student receives inappropriate assistance. Particularly serious violations of these standards will be referred to the administration for possible additional action.


Attendance: Attendance is expected; you should only miss a class for a compelling reason. If you do miss a class, you are responsible for any material that you miss, including any homework assignments given in that class. Unexcused absences can result in a lower grade.

Grading: Problem sets will be assigned each week; they will be collected 1-2 weeks later. There will be no midterm examinations, but there will be a final exam. The final grade shall be determined by a weighted average of the homework grade and the final exam grade; the final exam is worth 30% and the homework assignments will be worth 70%.

Guidelines for Homework:
(1) Late work will not be accepted without a compelling reason.
(2) Assignments are required to be neat, clean, and paper-clipped or stapled.
(3) Assignments must include the author’s name, and a brief description of the assignment.
(4) Students are allowed to discuss homework problems with their classmates, however all work that is turned in must be the student’s own work.
Any assignment that does not meet these criteria may receive a deduction in score, or more generally will simply be rejected.

**Final Exam:** The Final Exam is scheduled for **Wednesday, May 18, from 7:00-9:00 pm.** The final exam will not be rescheduled. Attendance is expected; a make-up exam will not be given without an extremely compelling reason. The final exam shall be comprehensive.

**Withdraw:** The last day to withdraw from the course with a grade of “W” is April 6.

**Help:** If you have difficulty completing a homework assignment, do not hesitate to ask for help, either from your friends, or from me. You are welcome to stop by my office, for whatever reason, and at whatever time, even if there are no office hours scheduled then. If you wish, you may also simply send an e-mail message.

**Web Page:** My web page at [http://www.towson.edu/~moleary](http://www.towson.edu/~moleary) has a page devoted to this course, which contains the syllabus, and copies of exams once they are given. Also archived on that site are copies of all of the old exams that I have given while at Towson.