

Math 110 Course Syllabus Spring 2003

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Office Hours: **MWF 10:00- 11:00 MW 3:30- 4:30 Th 1:30- 2:30**
Textbook: Brown and Churchill, *Fourier Series and Boundary Value Problems* 6th Ed.
 McGraw-Hill Pub.

MATERIAL: Chapters 1-6 + more if time allows

DESCRIPTION: This course will cover the derivations and solutions of the common partial differential equations of mathematical physics and engineering including the heat, wave, Laplace and Schrodinger equations. Fourier methods and solutions to Sturm-Liouville problems will be fully explored. Methods will include the use of Bessel functions and Legendre polynomials.

PREREQUISITES: A "C-" or better in Math 7D. Math 7C is highly recommended.

PARTICIPATION: Frequent quizzes and activities conducted in class will be collected and graded. Attendance and participation are required.

NOTE: Incompletes will not be considered except for major emergencies.

HOMEWORK: Required and Graded! Frequent quizzes will cover the assignments. Problems assigned for collection must be worked out completely and all work shown. It is your responsibility as a serious student to complete daily homework assignments. Homework must be NEAT and ON-TIME. Leave vertical space between each problem and print **neatly and clearly**. Use lined paper and write no larger than the space between lines. You are **REQUIRED** to use **graph paper** when graphs are used. As usual your name should always appear in the upper right corner of each sheet. Use only on ONE SIDE of each sheet of paper.

OTHER STUFF: Each student **must** have a **graphing** calculator to use in class and on tests. Advanced calculators and laptops with algebra solving systems (like the TI-89 and TI-92) are encouraged and will be allowed during tests.

ASSESSMENT: There will be two midterms and a final. I do not give make-up tests. Several projects/group activities may be assigned and evaluated. Quizzes on homework will be given regularly. Quiz and Project/activity points will be combined with homework. The final exam will count 25% of your grade.

GRADING:	Homework/Quizzes/Projects	= 35%	Course Grade:	90-100% = A
	2 Midterms (@ 20%)	= 40%		80-89% = B
	<u>Final Exam</u>	= <u>25%</u>		70-79% = C
	TOTAL	= 100%		60-69% = D