

Course Outline
Engineering Mathematics II - Spring 2003
Math 352
Prof. John A. Pelesko

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Office Hours: Monday 12-1, Wednesday 12-1, Friday 12-1.

Course web page: <http://www.math.udel.edu/~pelesko/Teaching/teachingmath352.htm>

Required text:

Advanced Engineering Mathematics, by M.D. Greenberg

Following is our course outline for Math 352 - Engineering Mathematics II. The prerequisite for this course is Math 351. Students are expected to be conversant with ordinary differential equations and to be familiar with vectors and basic vector calculus. During the semester there will be two hourly examinations, each of which is worth 15 percent of your final grade. The final exam will be worth 40 percent. In addition homework will be graded. Between 8 and 10 assignments will be given, all will be graded. Only your top 6 scores will count. Homework will count for 30 percent of your final grade.

The Laplace Transform - February 10th, 12th, 14th *Sections 5.1,5.2,5.3,5.4*

Laplace Transform II - February 17th, 19th, 21st *Sections 5.5,5.6,5.7*

Scalar and Vector Field Theory - February 24th, 26th, 28th *Sections 5.7, 16.1, 16.2*

Scalar and Vector Field Theory II - March 3rd, 5th, 7th *Sections 16.8*

Scalar and Vector Field Theory III - March 10th, 12th, 14th *Sections 16.9, Exam #1 is on Friday March 14th!*

Scalar and Vector Field Theory IV - March 17th, 19th, 21st *Section 16.10*

PDE's I - March 24th, 26th, 28th *Sections 18.1, 18.2, 18.4 (Laplace transform only), 18.3*

PDE's II - April 7th, 9th, 11th *Sections 17.2, 17.3, 17.4*

Laplace Equation - April 14th, 16th, 18th *Sections 20.1, 20.2*

Laplace Equation II - April 21st, 23rd, 25th *Exam #2 is on Monday April 21st. Section 20.1, 20.2 continued*

Wave Equation - April 28th, 30th, May 2nd *Sections 19.1, 19.2, 19.3*

Wave Equation II - May 5th, 7th, 9th *Sections 19.3 continued, 19.4*

Non-Cartesian Coordinates - May 12th, 14th, 16th *Section 20.3, 17.7, 17.8*

PDE Misc. and Review - May 19th, 21st *Section 17.10 continued*