

MA 341 SAMPLE COURSE SYLLABUS - SPRING 2008  
 Differential Equations and Boundary Value Problems (4-th Edition)  
 By Nagle, Saff & Snider

Time: Tuesday (T), Thursday (H) 1.30 – 2.45, HA 207

Instructor: Mette Olufsen ([msolufse@ncsu.edu](mailto:msolufse@ncsu.edu)), Office Hours (via Appointment)

TA: Heather Gerard ([hmgerard@ncsu.edu](mailto:hmgerard@ncsu.edu)), Office Hours (Mon 10.30-11.30 & Thur 3-4pm)

Grades: Homework (10%), Tests (60%), Final (30%)

Homework is due every Tuesday.

Date	Day	Sect	Title
10-Jan	H	1.1-1.2	Solutions & Initial Value Problems
15	T	1.3-1.4	Direction Fields & Eulers Method
17	H	2.1-2.2	Separable Equations
22	T	2.3-2.4	First Order Linear Equations & Exact Equations
24	H	3.2-3.5	Select Applications
29	T	4.1-4.2	Introduction 2 <sup>nd</sup> Order Linear Equations
31	H	4.2	Constant Coefficients – Real Roots
05-Feb	T	4.3	Constant Coefficients – Complex Roots
07	H		Review
<b>12</b>	<b>T</b>		<b>TEST #1</b>
14	H	4.4-4.5	Undetermined Coefficients & Superposition
19	T	4.8-4.9	Mechanical Vibrations
21	H	9.1-9.2	Introduction, Linear Algebra
26	T	9.3-9.4	Matrices & Vectors & Linear Systems
28	H	9.5-9.6	Real & Complex Eigenvalues
<b>04-06 Mar</b>			<b>SPRING BREAK</b>
11	T	9.7	Nonhomogenous Systems
13	H	5.2	Elimination Method for Systems
18	T	5.4	Phase Plane
20	H	12.1-12.2	Introduction: Autonomous Systems Linear Systems in the Plane
25	T		Review
27	H		<b>TEST #2</b>
01 Apr	T	7.1-7.2	Laplace Transforms-Introduction & Definition
03	H	7.3-7.4	Properties & Inverse Transforms
08	T	7.5	Solving Initial Value Problems
10	H		Review
<b>15</b>	<b>T</b>		<b>TEST #3</b>
17	H	7.6	Discontinuous & Periodic Functions
22	T	7.7-7.8	Convolution/Impulses
24	H		Review, Final (Comprehensive)
<b>06 May</b>	<b>T</b>		<b>FINAL Exam (1.00 – 4.00 pm)</b>