## Schedule and Homework Assignments Math 3113–002/005, Fall 2004

Week	Topics	Week	Topics
Aug 23 – Aug 27	1.1 - 1.3	Oct 18 – Oct 22	4.1 - 4.2
Aug 30 – Sep 3	1.4 - 1.5	Oct 25 – Oct 29	4.2 - 5.1, Exam 2
Sep 6 – Sep 10	1.6 - 3.1	Nov $1 - Nov 5$	5.1 - 5.2
Sep 13 – Sep 17	3.1 - 3.2	Nov 8 – Nov 12	7.1 - 7.2
Sep 20 – Sep 24	3.2 - 3.3, Exam 1	Nov 15 – Nov 19	7.3 - 7.4
Sep 27 – Oct 1	3.4 - 3.5	Nov 22 – Nov 26	Exam 3
Oct 4 - Oct 8	3.5 - 3.6	Nov 29 – Dec 3	7.4 - 7.5
Oct 11 – Oct 15	3.8, 4.1	Dec 6 – Dec 10	7.6

## Approximate Schedule

## Homework by Section

Castion	Tomio	Homosevenle
Section		Homework
1.1	Differential Equations and Solutions	3, 6, 13-15, 20, 22, 26, 28-29
1.2	General and Particular Solutions	5, 7-8, 10-11, 15, 19-22, 25, 30, 35
1.3	Slope Fields, Existence/Uniqueness	1, 3, 11-15, 27-29
1.4	Separable Equations	3, 5, 17, 21, 24, 28, 34, 42, 54, 61
1.5	First Order Linear Equations	3, 7, 17, 24, 29, 33, 37
1.6	Substitutions	3, 7, 9, 18-21, 29, 44, 45, 49, 52, 56-60
3.1	Second Order Linear Equations	1, 4, 9, 17 - 19, 23 - 25, 29, 33, 36, 38 - 39, 43 - 48
3.2	Linear Equations	2, 3, 5-9, 14, 18, 22-24
3.3	Homogeneous Equations	6-8, 10-11, 18-19, 23, 25, 33, 35, 39-42
3.4	Vibrations	5-8, 13-18
3.5	Non-homogeneous Equations	5, 7, 9, 17, 21-24, 32-33, 47, 51
3.6	Forced Oscillations and Resonance	2-4, 8, 11, 12, 18, 23, 24
3.8	Boundary Value Problems	2-4, 7-9, 13
4.1	First Order Systems	1, 4, 10 - 13, 16 - 17, 21 - 22
4.2	The Method of Elimination	1, 3, 7, 13, 21 – 22
5.1	Matrices and Linear Systems	3, 4, 6, 11-12, 19–20, 23
5.2	The Eigenvalue Method	2-4, 11, 12, 18, 24
7.1	Laplaca Transforms	1-4, 7-9, 11, 14-18, 20, 23, 25-29
7.2	Initial Value Problems	2-3, 5-6, 11-13, 17, 19, 21, 28-31
7.3	Partial Fractions	2-3, 6-7, 11, 15, 27, 30-32
7.4	Calculus of Laplace Transforms	2-3, 5-7, 9, 15-16, 19-20, 23, 25-26, 33, 36-37
7.5	Periodic, Piecewise-cont. Functions	1-3, 7, 11-14, 19-20, 25-27, 31-33
7.6	Impulses and Delta Functions	1, 4-6, 9-11, 13, 14