

**UNIVERSITY OF NOTRE DAME**  
**Department of Civil Engineering**  
**and Geological Sciences**

**CE 341/ CE 441**  
**J.J. Westerink**

**Fall 2004**

<u>Class Number</u>	<u>Day</u>	<u>Date</u>	<u>Topic</u>	<u>Reading Assignment</u>
1	Tu	24 AUG	Introduction	Lecture 1
2	Th	26 AUG	Simultaneous Linear Equations-Direct	Lecture 2
3	Tu	31 AUG	Simultaneous Linear Equations-Direct	Lecture 3
4	Th	2 SEP	Simultaneous Linear Equations-Iterative	Lecture 4
5	Tu	7 SEP	Interpolation - Linear	Lecture 5
6	Th	9 SEP	Interpolation - Lagrange	Lecture 6
7	Tu	14 SEP	Interpolation - Newton	Lecture 7
8	Th	16 SEP	Interpolation - Chebyshev roots	Lecture 8
9	Tu	21 SEP	Interpolation - Hermite	Lecture 9
10	Th	23 SEP	Interpolation and Extrapolation	
11	Tu	28 SEP	Nonlinear Algebraic Equations	Lecture 10
12	Th	30 SEP	Numerical Differentiation	Lecture 11
13	Tu	5 OCT	Numerical Differentiation	Lecture 12
14	Th	7 OCT	Numerical Differentiation	Lecture 13
15	Tu	12 OCT	<i>Review classes 1-11</i>	Review 1
16	Th	14 OCT	<b><i>HOURLY EXAM I - classes 1-11</i></b>	
*	Tu	19 OCT	<i>break week</i>	
*	Th	21 OCT	<i>break week</i>	
17	Tu	26 OCT	Introduction to IVP's	Lecture 14
18	Th	28 OCT	Introduction to BVP's	Lecture 15
19	Tu	2 NOV	Introduction to BVP's	Lecture 16
20	Th	4 NOV	Numerical Integration	Lecture 17
21	Tu	9 NOV	Numerical Integration	Lecture 18
22	Th	11 NOV	Numerical Integration	Lecture 19
23	Tu	16 NOV	Ordinary Differential Equations - IVP	Lecture 20
24	Th	18 NOV	Ordinary Differential Equations - IVP	Lecture 21
25	Tu	23 NOV	<i>Review classes 12-14, 17-22</i>	Review 2
*	Th	25 NOV	<i>Thanksgiving</i>	
26	Tu	30 NOV	<b><i>HOURLY EXAM II - classes 12-14, 17-22</i></b>	
27	Th	2 DEC	Ordinary Differential Equations - IVP	Lectures 22
28	Tu	7 DEC	<i>Review classes 23,24,27; Course Review</i>	Review 3

***FINAL EXAM - COMPREHENSIVE - classes 1-28***

***CE 341 DEC 16 - 10:30am - 12:30pm***

***CE 441 DEC 15 - 10:30am - 12:30pm***