MATH 340- SPRING 2011

Week Dates	Section	Topic of the Class		
Week 1 1/18 – 1/21	1.1-1.2	Taylor Polynomial, Errors in Taylor Polynomials		
	1.2-1.3	Evaluating Polynomials		
Week 2	•	LAB:		
	2.1-2.2	Floating Point Numbers		
	2.3-2.4	Errors		
Week 3 1/31 – 2/4	•	LAB:		
	3.1	Root Finding: Bisection Method		
	3.2-3.3	Newton's Method, Secant Method		
Week 4	•	LAB:		
2/7 – 2/11	3.4-3.5	Fixed Point Iteration		
	3.4-3.5	III-behaved Rootfinding Problems		
Week 5	L	REVIEW FOR MIDTERM EXAM		
2/14 – 2/18	L	MIDTERM EXAM I: FEBRUARY 17, 2011		
	4.1	Interpolation: Polynomial Interpolation		
Week 6	•	LAB:		
2/21 – 2/25	4.2	Polynomial Interpolation		
	4.3	Spline Interpolation		
Week 7	•	LAB:		
2/28 – 3/4	5.1	Numerical Integration: Trapezoidal & Simpson's Rule		
	5.2	Error Formulas		
Week 8	•	LAB:		
3/7 – 3/11	5.2	Error Formulas		
	5.3	Gaussian Quadrature		
Week 9 3/14 – 3/18	L >	SPRING RECESS: MARCH 13-19, 2011		

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Week 10	•	LAB:
3/21 – 3/25	5.4	Numerical Differentiation
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Week 11	L	LAST DAY TO WITHDRAW FROM THIS COURSE
<u>3/28</u> – 4/1	L	REVIEW FOR MIDTERM EXAM
	L	MIDTERM EXAM II: MARCH 31, 2011
	8.1-8.2	Review of ODE, Ordinary Differential Equations: Euler's Method
Week 12 4/4 – 4/8	•	LAB:
	8.3	Euler's Method
	8.3-8.4	Stability & Implicit methods
Week 13	•	LAB:
4/11 – 4/15	8.4-8.5	Taylor and Runge-Kutta Methods
	8.7	Systems of Differential Equations
Week 14	•	LAB:
4/18 – 4/22	Ch.6	Linear Algebra
	Ch.6	Eigenvalue Problems
<u>4/22</u>	L	GOOD FRIDAY ~ NO CLASSES SCHEDULED
Week 15 4/26 – 4/30	•	LAB:
	Ch.6	Non-linear Systems
	L	REVIEW FOR MIDTERM EXAM
Week 16	•	LAB:
5/3 - <u>5/4</u>	L	REVIEW FOR MIDTERM EXAM
	L	TUES. MAY 3 CLASSES FOLLOW A FRIDAY SCHEDULE
	L	5/4 READING DAY
Finals		FINAL EXAM WEEK: MAY 5-11, 2011