

Calculus II			
Outline of Class Sessions			
Date	Section	Topics	Comments
Week 1		Introductions, Syllabus activity	Setting preferred e-address in Course Management System
Day 1		Class activity to review derivatives -- Summary list of Differentiation Formulas; Section 5.6 Exercises	Information re: Maple Adoption Program
Day 2	6.1	Finding Antiderivatives	
Week 2			
Day 3	6.2	Separation of Variables	
Day 4			
Day 5	6.3	Logistic Growth	Project 1 available (Sky Diving)
Week 3			
Day 6			
Day 7	7.1	Averaging Continuous Functions: The Definite Integral	
Day 8	7.2	The Fundamental Theorem of Calculus	Project 1 DUE
Week 4			
Day 9			Project 2 available (Crater Lake)
Day 10	8.1	Moments and Centers of Mass	
Day 11	More 8.1		
Week 5			
Day 12		Review for Test	Project 2 DUE
Day 13			Test 1, includes Benchmark
Week 6			
Day 14		Go over Test Partial Fractions -- Selected problems from Web Work assignment	
Day 15	8.3	Numerical approximations of integrals	
Day 16			
Week 7			
Day 17	8.4	Applying differentiation rules to integrals	

Day 18		Review of Trigonometry	
Day 19		Evaluating antiderivatives and definite integrals Lots of work on the board + small group work on Web Work problems	
Week 8			
Day 20		Review for Test	
Day 21			Test 2, includes Benchmark
Day 22		Introduce Project 3: Drug Dosage	Project 3 available (Drug Dosage) Midterm
Week 9			
Day 23			
Day 24	9.1	Reliability Theory: How long do things last?	
Day 25	9.2	Improper Integrals	
Week 10			
Day 26		Discussion of Limits, formal notation and calculating limits	Project 3 DUE
Day 27			
Day 28			Test 3 (no benchmark questions) Last day to withdraw
			Spring Break: March 27 - April 6
Week 11			
Day 29	10.1	Sums and Limits Lecture Overview -- then group work on Activities and Checkpoints	
Day 30	10.2	Approximation of Functions: Taylor Polynomials	
Week 12			
Day 31		Group work on Activities and Checkpoints of 10.1 and 10.2	
Day 32	10.3	Taylor Series Lecture and whole class discussion	
Day 33	10.4	More Taylor Polynomials and Series Lecture and whole class discussion	

Week 13 Day 34		Group work on Activities and Checkpoints of 10.3 and 10.4	
Day 35	10.3/10.4	Lecture on themes of Chapter 10 Sequences, Series, Taylor Polynomials	Short class because of Honors Convocation HWK assignment due on Friday
Day 36	10.5	Series of Constants -- lots of examples of series Note that certain geometric series converge	Project 4 available (Drug Dosage Reprise) Look for geometric series in this situation
Week 14 Day 37	10.6	Convergence of Series Build on the connections between Sections 10.5 and 10.6 What does any of this have to do with the Project?	HWK assignment due on Friday Benchmark Study Guide available
Day 38	10.7	Convergence to the Right Function Lecture over this material to bring these topics together	
Day 39		Review for the Benchmark -- lots of problems on the board	
Week 15 Day 40		Discussion of geometric series and the Project Benchmark (in class)	Window of opportunity for Benchmark: May 3 - 10
Day 41		Review for Exam: Samples of possible exam questions	Project 4 DUE
Day 42		Review for Exam: Student presentation of solutions to possible exam questions	
Day 43		Review for Exam: More student solutions to possible exam questions	
Exam		Scheduled date and time for final exam: Insert Date, Time, Place	Final Exam