

MA102 Calculus II

Monday	Wednesday	Friday	Monday	Wednesday	Friday
January 13	January 15 <i>Mathematical Software</i> <i>Mathematica</i>	January 17 <i>Areas and Distances</i> <i>Sections 5.1-5.2</i>	January 20 <i>Fundamental Theorem of Calculus</i> <i>Sections 5.3-5.4</i>	January 22 <i>Substitution Rule</i> <i>Section 5.5</i>	January 24 <i>Integration by Parts</i> <i>Sections 5.6</i>
January 27 <i>More Techniques of Integration</i> <i>Sections 5.7</i>	January 29 <i>Integration Using CAS</i> <i>Sections 5.8</i>	January 31 <i>Approximate Integration</i> <i>Section 5.9</i>	February 3 <i>Improper Integrals</i> <i>Section 5.10</i>	February 5 <i>Review of Integration</i> <i>Review of Chapter 5</i>	February 7 <i>Exam 1 Integrals</i> <i>Sections 5.1-5.10</i>
February 10 <i>More About Areas</i> <i>Section 6.1</i>	February 12 <i>Volumes</i> <i>Section 6.2</i>	February 14 <i>Arc Length</i> <i>Section 6.3</i>	February 17 <i>Average Value of a Function</i> <i>Section 6.4</i>	February 19 <i>Applications to Physics and Engineering</i> <i>Section 6.5</i>	February 21 <i>Applications to Economics and Biology</i> <i>Section 6.6</i>
February 24 <i>Probability</i> <i>Section 6.7</i>	February 26 <i>Review of Applications of Integration</i> <i>Review of Chapter 6</i>	February 28 <i>Exam 2 Applications of Integration</i> <i>Sections 6.1-6.7</i>	March 3 <i>Modeling with Differential Equations</i> <i>Section 7.1</i>	March 5 <i>Euler's Method</i> <i>Section 7.2</i>	March 7 <i>Separable Equations</i> <i>Section 7.3</i>
March 10 <i>Exponential Growth and Decay</i> <i>Section 7.4</i>	March 12 <i>The Logistic Equation</i> <i>Section 7.5</i>	March 14 <i>Spring Vacation</i>	March 17 <i>Spring Vacation</i>	March 19 <i>Spring Vacation</i>	March 21 <i>Spring Vacation</i>
March 24 <i>Predator-Prey Systems</i> <i>Section 7.6</i>	March 26 <i>Review of Differential Equations Rule</i> <i>Review of Chapter 7</i>	March 28 <i>Exam 3 Differential Equations</i> <i>Sections 7.1-7.6</i>	March 31 <i>Sequences</i> <i>Section 8.1</i>	April 2 <i>Series</i> <i>Section 8.2</i>	April 4 <i>Estimating Sums</i> <i>Section 8.3</i>
April 7 <i>Convergence Tests</i> <i>Section 8.4</i>	April 9 <i>Power Series</i> <i>Section 8.5</i>	April 11 <i>Representation of Functions</i> <i>Section 8.6</i>	April 14 <i>Taylor and Maclaurin Series</i> <i>Section 8.7</i>	April 16 <i>Binomial Series</i> <i>Section 8.8</i>	April 18 <i>Applications of Taylor Series</i> <i>Section 8.9</i>
April 21 <i>Using Series to Solve ODEs</i> <i>Section 8.10</i>	April 23 <i>Review of Series</i> <i>Review of Chapter 8</i>	April 25 <i>Exam 4 Infinite Series</i> <i>Sections 8.1-8.10</i>	April 28 <i>Polar Coordinates</i> <i>Section 9.7</i>	April 30 <i>Polar Coordinates</i> <i>Section 9.7</i>	Text: <i>Stewart "Calculus: Concepts and Contexts" Second Edition</i>
May 2 <i>Final Exam</i> <i>2-4 PM, Friday</i> <i>Sections 5.1-8.10</i>	<i>Math 102 Calculus II</i> <i>MWF 11:00-11:50</i> <i>Parrish, Spring 2003</i>		<i>Grading Scheme:</i> <i>exams</i> <i>60 points</i> <i>homework</i> <i>20 points</i> <i>final exam</i> <i>20 points</i> <i>total:</i> <i>100 points</i>		