

Math 1352

2006 Spring Semester

Monday	Tuesday	Wednesday	Thursday	Friday
<i>January 9</i>	<i>January 10</i>	<i>January 11</i>	<i>January 12</i> 6.1: area between curves, area using vertical strips, area using horizontal strips	<i>January 13</i>
<i>January 16</i> <i>Martin Luther King, Jr.</i>	<i>January 17</i> 6.2: method of cross sections, method of disks and washers, method of cylindrical shells <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">HW 01 Due: 6.1</div>	<i>January 18</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">WW 01 Due: 6.1</div>	<i>January 19</i> 6.3: polar coordinates, polar graphs, intersection of polar curves, area for polar coordinates	<i>January 20</i>
<i>January 23</i>	<i>January 24</i> 6.4: arc length of a curve, area of a surface of rotation, polar arc length and surface area <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">HW 02 Due: 6.2-6.3</div>	<i>January 25</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">WW 02 Due: 6.2-6.3</div>	<i>January 26</i> 6.5: work, fluid pressure and force, centroids and moments in the plane, theorem of Pappus	<i>January 27</i>
<i>January 30</i>	<i>January 31</i> 7.1-7.2: review of substitution, use of tables, (begin) integration by parts <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">HW 03 Due: 6.4-6.5</div>	<i>February 1</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">WW 03 Due: 6.4-6.5</div>	<i>February 2</i> 7.2-7.3: integration by parts, repeated integration by parts, definite integration by parts, (begin) trigonometric substitution: powers of sine and cosine <i>Groundhog Day</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">Review Session 7:00 pm</div>	<i>February 3</i>
<i>February 6</i>	<i>February 7</i> Exam I (6.1-6.5)	<i>February 8</i>	<i>February 9</i> 7.3: trigonometric substitution: powers of secant and tangent, quadratic-form integrals	<i>February 10</i>
<i>February 13</i>	<i>February 14</i> 7.4: partial fraction decompositions, Heaviside method, integrating rational functions, rational functions of sine and cosine <i>Valentine's Day</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">HW 04 Due: 7.1-7.3</div>	<i>February 15</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">WW 04 Due: 7.1-7.3</div>	<i>February 16</i> 7.5: strategies for integration	<i>February 17</i>

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<p><i>February 20</i> <i>President's Day</i></p>	<p><i>February 21</i> 7.6: first-order linear differential equations, applications of first-order equations</p> <p style="border: 1px solid black; padding: 2px;">HW 05 Due: 7.4-7.5</p>	<p><i>February 22</i> <i>Washington's Birthday</i></p> <p style="border: 1px solid black; padding: 2px;">WW 05 Due: 7.4-7.5</p>	<p><i>February 23</i> 7.7: improper integrals with infinite limits of integration, improper integrals with unbounded integrands</p>	<p><i>February 24</i></p>
<p><i>February 27</i></p>	<p><i>February 28</i> 7.8: hyperbolic functions, derivatives and integrals of hyperbolic functions, inverse hyperbolic functions</p> <p style="border: 1px solid black; padding: 2px;">HW 06 Due: 7.6-7.7</p>	<p><i>March 1</i></p> <p style="border: 1px solid black; padding: 2px;">WW 06 Due: 7.6-7.7</p>	<p><i>March 2</i> 8.1: sequences, limits of sequences, bounded sequences, monotonic sequences, sandwich (squeeze) theorem for sequences</p>	<p><i>March 3</i></p>
<p><i>March 6</i></p>	<p><i>March 7</i> 8.2: definition of infinite series, general properties, geometric series, applications of the geometric series</p> <p style="border: 1px solid black; padding: 2px;">Review Session 7:00 pm</p>	<p><i>March 8</i></p>	<p><i>March 9</i> Exam II (7.1-7.7)</p>	<p><i>March 10</i></p>
<p><i>March 13</i></p>	<p><i>March 14</i></p>	<p><i>March 15</i></p>	<p><i>March 16</i></p>	<p><i>March 17</i> <i>St. Patrick's</i></p>
Spring Break				
<p><i>March 20</i></p>	<p><i>March 21</i> 8.3: divergence test, series of non-negative numbers, integral test, p-series</p> <p style="border: 1px solid black; padding: 2px;">HW 07 Due: 7.8-8.2</p>	<p><i>March 22</i> Last Day to Drop a Course</p> <p style="border: 1px solid black; padding: 2px;">WW 07 Due: 7.8-8.2</p>	<p><i>March 23</i> 8.4: direct comparison test, limit comparison test</p>	<p><i>March 24</i></p>
<p><i>March 27</i></p>	<p><i>March 28</i> 8.5: 8.4-8.5: ratio test, root test</p> <p style="border: 1px solid black; padding: 2px;">HW 08 Due: 8.3-8.4</p>	<p><i>March 29</i></p> <p style="border: 1px solid black; padding: 2px;">WW 08 Due: 8.3-8.4</p>	<p><i>March 30</i> 8.6: alternating series test, error estimates for alternating series, absolute and conditional convergence, summary of tests</p>	<p><i>March 31</i></p>

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Monday	Tuesday	Wednesday	Thursday	Friday
<i>April 3</i>	<i>April 4</i> 8.7: convergence of a power series, term-by-term differentiation and integration of a power series <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">HW 09 Due: 8.5-8.6</div>	<i>April 5</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">WW 09 Due: 8.5-8.6</div>	<i>April 6</i> 8.8: Taylor and Maclaurin polynomials, Taylor's theorem, Taylor and Maclaurin series, operations on Taylor and Maclaurin series	<i>April 7</i>
<i>April 10</i>	<i>April 11</i> 9.1: introduction to vectors, vectors in component form, standard representations in the plane <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">HW 10 Due: 8.7-8.8</div>	<i>April 12</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">WW 10 Due: 8.7-8.8</div>	<i>April 13</i> 9.2: coordinates in space, graphs in space, spheres and cylinders, vectors in space <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Review Session 7:00 pm</div>	<i>April 14</i>
<i>April 17</i>	<i>April 18</i> Exam III (7.8-8.8)	<i>April 19</i>	<i>April 20</i> 9.3: definition and basic properties of dot product, angle between vectors, direction cosines, projections	<i>April 21</i>
<i>April 24</i>	<i>April 25</i> 9.4: definition and basic properties of the cross product, geometric interpretation of the cross product, applications of the cross product: area and torque, triple scalar product <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">HW 11 Due: 9.1-9.3</div>	<i>April 26</i> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">WW 11 Due: 9.1-9.3</div>	<i>April 27</i> 9.5: parametric equations, parametrizing a curve, lines in space	<i>April 28</i>
<i>May 1</i>	<i>May 2</i> 9.6: forms for the equation of a plane in space, vector methods for measuring distances in space <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">HW 12 Due: 9.4-9.5</div>	<i>May 3</i> Individual Study Day <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Review Session 3:00 pm</div>	<i>May 4</i>	<i>May 5</i> <i>Cinco de Mayo</i>
<div style="border: 1px solid black; padding: 2px; width: 100%;">Period of No Exams</div>		<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">WW 12 Due: 9.4-9.5</div>	<div style="border: 1px solid black; padding: 2px; width: 100%;">Period of No Exams</div>	
<i>May 8</i> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">Departmental Final Exam (10:30)</div>	<i>May 9</i>	<i>May 10</i>	<i>May 11</i>	<i>May 12</i>