Lecture Calendar: Math 5C, Spring 2010

Anything labeled “course notes” refers to documents the instructor wrote and posted on the webpage.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic Covered</th>
<th>Sections in the Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 29</td>
<td>Line Integrals</td>
<td>5.2, 5.3</td>
</tr>
<tr>
<td>March 31</td>
<td>Double Integrals</td>
<td>6.1, 6.2, 6.3</td>
</tr>
<tr>
<td>Apr 2</td>
<td>Polar Coordinates</td>
<td>6.4</td>
</tr>
<tr>
<td>Apr 5</td>
<td>Surfaces, Area Elements</td>
<td>7.1, 7.3</td>
</tr>
<tr>
<td>Apr 7</td>
<td>Surface Integrals</td>
<td>7.3, 7.4</td>
</tr>
<tr>
<td>Apr 9</td>
<td>Triple Integrals</td>
<td>6.5</td>
</tr>
<tr>
<td>Apr 12</td>
<td>Cylindrical, Spherical</td>
<td>6.5</td>
</tr>
<tr>
<td>Apr 14</td>
<td>Vector Derivatives</td>
<td>4.6</td>
</tr>
<tr>
<td>Apr 16</td>
<td>Exam 1</td>
<td>all the above except 4.6</td>
</tr>
<tr>
<td>Apr 19</td>
<td>Independence of Path</td>
<td>5.4</td>
</tr>
<tr>
<td>Apr 21</td>
<td>Green’s Theorem</td>
<td>8.1</td>
</tr>
<tr>
<td>Apr 23</td>
<td>Divergence Theorem</td>
<td>8.2</td>
</tr>
<tr>
<td>Apr 26</td>
<td>Stokes’ Theorem</td>
<td>8.3</td>
</tr>
<tr>
<td>Apr 28</td>
<td>Intro to Infinite Series</td>
<td>10.1, 10.2, 10.3</td>
</tr>
<tr>
<td>Apr 30</td>
<td>Convergence Tests</td>
<td>10.4, 10.5, 10.6</td>
</tr>
<tr>
<td>May 3</td>
<td>Intermediate Examples of Series</td>
<td>Course notes</td>
</tr>
<tr>
<td>May 5</td>
<td>Power Series</td>
<td>10.8</td>
</tr>
<tr>
<td>May 7</td>
<td>Exam 2</td>
<td>8.1-8.3, 10.1-10.6, Course notes</td>
</tr>
<tr>
<td>May 10</td>
<td>Taylor Series</td>
<td>10.8, 10.9</td>
</tr>
<tr>
<td>May 12</td>
<td>Approximation with Taylor Series</td>
<td>10.7, 10.9</td>
</tr>
<tr>
<td>May 14</td>
<td>Applications of Taylor Series</td>
<td>10.10</td>
</tr>
<tr>
<td>May 17</td>
<td>Fourier Series: Linear Algebra Aspects</td>
<td>11.1</td>
</tr>
<tr>
<td>May 19</td>
<td>Fourier Series: Analysis Aspects</td>
<td>11.2</td>
</tr>
<tr>
<td>May 21</td>
<td>Intro to Harmonic Functions</td>
<td>Course notes</td>
</tr>
<tr>
<td>May 24</td>
<td>Solving Laplace’s Equation</td>
<td>12.5</td>
</tr>
<tr>
<td>May 26</td>
<td>Solving Laplace’s Equation, II</td>
<td>12.5</td>
</tr>
<tr>
<td>May 28</td>
<td>Exam 3</td>
<td>10.7-10.10, 11.1, 11.2, 12.5</td>
</tr>
<tr>
<td>May 31</td>
<td>HOLIDAY</td>
<td>none</td>
</tr>
<tr>
<td>Jun 2</td>
<td>Evaluating Series and Integrals</td>
<td>10.10, 11.2</td>
</tr>
<tr>
<td>Jun 4</td>
<td>Evaluating Series and Integrals, II</td>
<td>Course notes</td>
</tr>
<tr>
<td>Jun 9</td>
<td>FINAL EXAM, 4 - 7 PM</td>
<td>anything we’ve covered!</td>
</tr>
</tbody>
</table>