## Math 143, Spring 2009, Tentative Schedule

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>January 19</strong></td>
<td><strong>January 20</strong></td>
<td><strong>January 22</strong></td>
<td><strong>January 23</strong></td>
</tr>
<tr>
<td>Martin Luther King Day</td>
<td>2.3–2.7 rules of differentiation</td>
<td>2.8 implicit differentiation</td>
<td>4.6 review of substitution</td>
</tr>
<tr>
<td><strong>January 26</strong></td>
<td><strong>January 27</strong></td>
<td><strong>January 29</strong></td>
<td><strong>January 30</strong></td>
</tr>
<tr>
<td>4.7 numerical integration</td>
<td>Lab 18: numerical integration</td>
<td>5.2 volume by slicing</td>
<td>5.3 volume by shells</td>
</tr>
<tr>
<td><strong>February 2</strong></td>
<td><strong>February 3</strong></td>
<td><strong>February 5</strong></td>
<td><strong>February 6</strong></td>
</tr>
<tr>
<td>Lab 14: arc length</td>
<td>5.4 arc length</td>
<td>Lab 15: mystery function</td>
<td>4.8 natural log</td>
</tr>
<tr>
<td><strong>February 9</strong></td>
<td><strong>February 10</strong></td>
<td><strong>February 12</strong></td>
<td><strong>February 13</strong></td>
</tr>
<tr>
<td>6.1 basic integration</td>
<td>review</td>
<td>exam 1</td>
<td>6.2 integration by parts</td>
</tr>
<tr>
<td><strong>February 16</strong></td>
<td><strong>February 17</strong></td>
<td><strong>February 19</strong></td>
<td><strong>February 20</strong></td>
</tr>
<tr>
<td>6.2 integration by parts</td>
<td>6.3 powers of trig functions</td>
<td>6.3 trig substitutions</td>
<td>6.4 partial fractions</td>
</tr>
<tr>
<td><strong>February 23</strong></td>
<td><strong>February 24</strong></td>
<td><strong>February 26</strong></td>
<td><strong>February 27</strong></td>
</tr>
<tr>
<td>6.4 partial fractions</td>
<td>3.2 l'Hôpital's rule</td>
<td>6.6 improper integrals</td>
<td>6.6 improper integrals</td>
</tr>
<tr>
<td><strong>March 2</strong></td>
<td><strong>March 3</strong></td>
<td><strong>March 5</strong></td>
<td><strong>March 6</strong></td>
</tr>
<tr>
<td>7.1 growth and decay</td>
<td>7.1 growth and decay</td>
<td>7.2 separable differential equations</td>
<td>7.2 separable differential equations</td>
</tr>
<tr>
<td><strong>March 16</strong></td>
<td><strong>March 17</strong></td>
<td><strong>March 19</strong></td>
<td><strong>March 20</strong></td>
</tr>
<tr>
<td>7.3 Euler's method</td>
<td>Lab 25: Euler's method</td>
<td>7.4 systems of differential equations</td>
<td>review</td>
</tr>
<tr>
<td><strong>March 23</strong></td>
<td><strong>March 24</strong></td>
<td><strong>March 26</strong></td>
<td><strong>March 27</strong></td>
</tr>
<tr>
<td>exam 2</td>
<td>8.1 sequences</td>
<td>Lab 19: sequences</td>
<td>limits of sequences</td>
</tr>
<tr>
<td><strong>March 30</strong></td>
<td><strong>March 31</strong></td>
<td><strong>April 2</strong></td>
<td><strong>April 3</strong></td>
</tr>
<tr>
<td>algebra of limits</td>
<td>8.1 sequences</td>
<td>8.2 series</td>
<td>Lab 20: series</td>
</tr>
<tr>
<td><strong>April 6</strong></td>
<td><strong>April 7</strong></td>
<td><strong>April 9</strong></td>
<td><strong>April 10</strong></td>
</tr>
<tr>
<td>8.3 integral test</td>
<td>8.3 comparison test</td>
<td>8.4 AST</td>
<td>8.5 absolute convergence</td>
</tr>
<tr>
<td><strong>April 13</strong></td>
<td><strong>April 14</strong></td>
<td><strong>April 16</strong></td>
<td><strong>April 17</strong></td>
</tr>
<tr>
<td>8.5 ratio test</td>
<td>Lab 22: polynomials</td>
<td>8.6 power series</td>
<td>8.7 Taylor series</td>
</tr>
<tr>
<td><strong>April 20</strong></td>
<td><strong>April 21</strong></td>
<td><strong>April 23</strong></td>
<td><strong>April 24</strong></td>
</tr>
<tr>
<td>8.7 Taylor series</td>
<td>8.8 applications of Taylor series</td>
<td>Honors Symposium</td>
<td>International Plaid Day review</td>
</tr>
<tr>
<td><strong>April 27</strong></td>
<td><strong>April 28</strong></td>
<td><strong>April 29</strong></td>
<td><strong>May 1</strong></td>
</tr>
<tr>
<td>exam 3</td>
<td>8.8 applications of Taylor series</td>
<td>review</td>
<td>final exam</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11:30am–1:30pm</td>
</tr>
</tbody>
</table>