<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Sections</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed, 15 Jan</td>
<td>Review and preview</td>
<td>§1 #77-82, §2 #3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27*</td>
<td></td>
</tr>
<tr>
<td>Fri, 17 Jan</td>
<td>§1.1 The tangent and velocity problems, §1.1 #3, 5, 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 21 Jan</td>
<td>Martin Luther King, Jr. holiday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 22 Jan</td>
<td>§1.2 The limit of a function, §1.2 #1, 3, 5, 9, 11, 13, 15, 17, 19, 23, 25, 27, 28, 29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 24 Jan</td>
<td>§1.3 Calculating limits using the limit laws, §1.3 #1, 3, 5, 7, 13, 15, 17, 19, 27, 29, 33, 39, 59, 61, 75*, 76*, 78*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 27 Jan</td>
<td>§1.3 Continued, §1.4 The rigorous definition of a limit (lightly)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 29 Jan</td>
<td>§1.5 Continuity, §1.5 #1, 3, 9, 13, 15, 17, 31, 33, 37, 39, 45, 47, 49, 59*, 60*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 31 Jan</td>
<td>§1.6 Tangents, velocities and other rates of change, §1.6 #1, 5, 7, 11, 13, 15, 17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 3 Feb</td>
<td>§2.1 Derivatives, §2.1 #1, 3, 5, 7, 11, 13, 15, 23, 31, 33, 34, 35, 37, 39, 44, 45, 53, 55, 59*, 60*, 61*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 5 Feb</td>
<td>§2.2 Differentiation formulas, §2.2 #1-34 (Learn to differentiate!), 37, 41, 43, 45, 47, 49, 55, 57, 63, 71, 74*, 76*.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 7 Feb</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 10 Feb</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tue, 11 Feb</td>
<td>First exam, 7:30pm-9:30pm, room TBA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 12 Feb</td>
<td>§2.3 Rates of change in the natural and social sciences, §2.3 #1, 3, 5, 7, 9, 11, 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 14 Feb</td>
<td>Appendix D, Trigonometry review #1, 3, 5, 7, 9, 11, 29, 31, 33, 35, 37, 43, 45, 47, 49, 53, 83*, 85*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 17 Feb</td>
<td>§2.4 Derivatives of trigonometric functions, §2.4 #1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 33, 35, 37, 43, 45, 47, 53*, 55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 19 Feb</td>
<td>§2.5 The chain rule, §2.5 1-47 (odds) 49, 51, 67, 69, 71*, 72*, 73*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 21 Feb</td>
<td>Implicit differentiation, §2.6 #1, 3, 5, 7, 9, 11, 21, 23, 25, 31, 35, 41, 43, 45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 24 Feb</td>
<td>§2.7 Higher derivatives, §2.7 #1, 3, 5, 7, 23, 25, 27, 29, 31<em>41, 43, 47, 49, 52</em>, 53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 26 Feb</td>
<td>§2.8 Related rates, §2.8 #1, 3, 5, 7, 9, 11, 13, 15, 23, 27, 31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 28 Feb</td>
<td>Related rates, continued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 3 Mar</td>
<td>§2.9 Linear approximations , §2.9 #31, 33, 35, 37, 39, 41, 45, 47, 51*, 54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 5 Mar</td>
<td>§2.10 Newton's method, §2.10 #1, 2, 3, 13, 23, 25, 31*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 7 Mar</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 10 Mar</td>
<td>Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tue, 11 Mar</td>
<td>Second exam, 7:30pm-9:30pm, room TBA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Chapter(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 12 Mar</td>
<td>§3.1 <em>Maximum and minimum values</em>, §3.1, #1, 3, 5, 7, 9, 11, 13, 15, 21, 29,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>31, 33, 35, 37, 39, 45, 47, 49, 51, 62, 63, 67, 69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 14 Mar</td>
<td>§3.2 <em>The mean value theorem</em>, §3.2 #1, 7, 17, 19, 21, 23*, 24, 25, 27, 31, 33, 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Last day to withdraw</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17–21 Mar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 24 Mar</td>
<td>§3.3 <em>Monotonic functions and the first derivative test</em>, §3.3 #1, 3, 5, 7, 17, 23, 27, 31, 33, 35, 37, 39, 41, 43, 47*, 49*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 26 Mar</td>
<td>§3.4 <em>Concavity and points of inflection</em>, §3.4 #1, 3, 5, 7, 9, 13, 17, 21, 23, 25, 27, 31*, 32, 35, 39*, 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 28 Mar</td>
<td>§3.5 <em>Limits at infinity, horizontal asymptotes</em>, §3.5 #1, 3, 5, 7, 9, 11, 17, 19, 21, 23, 29, 33, 41, 43, 53, 55, 61, 65, 66</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 31 Mar</td>
<td>§3.6 <em>Curve sketching</em>, §3.6 #1, 3, 5, 11, 13, 31, 35</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sir Isaac Newton died, 31 March 1727</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 2 Apr</td>
<td>§3.8 <em>Applied maximum and minimum problems</em>, §3.8 #1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 29, 33, 35, 43, 44.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 4 Apr</td>
<td>§3.8, continued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 7 Apr</td>
<td>§3.10 <em>Anti-derivatives</em>, §3.10 #1, 3, 5, 7, 15, 17, 19, 21, 23, 27, 37, 39, 43, 49, 55, 59*, 63, 65, 67*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 9 Apr</td>
<td>§4.1 <em>Sigma notation</em>, §4.1 #1, 3, 11, 13, 19, 21, 23, 37, 39, 41, 47*, 53*,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Mathematical induction</em>, Appendix E #1, 7, 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 11 Apr</td>
<td><em>Review</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 14 Apr</td>
<td><em>Review</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tue, 15 Apr</td>
<td><em>Third exam</em>, 7:30pm-9:30pm, room TBA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 16 Apr</td>
<td>§4.2 <em>Area</em>, §4.2 #1, 3, 9, 11, 13, 23, 25*, 26*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 18 Apr</td>
<td>§4.3 <em>The definite integral</em>, §4.3 #1, 3, 15, 16, 17, 23, 25, 27, 31, 33, 35, 39, 41, 45, 47, 55, 57, 59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 21 Apr</td>
<td>§4.4 <em>The fundamental theorem of calculus</em>, §4.4 #5, 7, 9, 17, 19, 21, 23, 25, 27, 29, 31, 41, 43, 45, 59, 61, 63, 65, 69, 71, 81, 82, 83a,b,c*, 87, 89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 23 Apr</td>
<td>§4.5 <em>The substitution rule</em>, §4.5 #1, 3, 5, 7, 9, 11, 39, 41, 43, 53, 55, 63, 65, 67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 25 Apr</td>
<td>§5.1 <em>Areas between curves</em>, §5.1 #1, 5, 7, 9, 13, 15, 17, 19, 25, 29, 33, 45*, 49</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mon, 28 Apr</td>
<td>§5.2 <em>Volume</em>, §5.2 #1, 3, 5, 7, 13, 15, 17, 19, 25, 27, 33, 35, 47, 49, 51, 52, 61, 68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wed, 30 Apr</td>
<td><em>Review</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fri, 1 May</td>
<td><em>Review</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thu, 8 May</td>
<td><em>Final exam</em>, 6:00-8:00pm, room TBA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>