

**MATH 205, Fall 2011, Approximate Schedule**

MONDAY	WEDNESDAY	FRIDAY
Aug 29th <b>1</b> Discussion of prerequisites	31st <b>2</b> 2.1/2.3, Functions	Sep 2nd <b>3</b> 2.2/2.3, Algebra of functions
5th <b>4</b> 2.4/2.5, Limits (graphical approach), One-sided limits	7th <b>5</b> 2.4/2.5, Limits (analytic approach), Indeterminate forms	9th <b>6</b> 2.4/2.5, Infinite limits
12th <b>7</b> 2.5, Continuous functions	14th <b>8</b> 2.5, Continuous functions, Intermediate Value Theorem	16th <b>9</b> 2.6, The derivative, definition
19th <b>10</b> 2.6, The derivative	21st <b>11</b> 2.6, Review for test	23rd <hr style="width: 100%;"/> <div style="text-align: center;">Test 1</div> <hr style="width: 100%;"/>
26th <b>12</b> 3.1, Basic rules of differentiation	28th <b>13</b> 3.2, Product and quotient rules	30th <b>14</b> 3.3, Chain rule
Oct 3rd <b>15</b> 3.3, Chain rule	5th <b>16</b> 3.5, Higher derivatives	7th <b>17</b> 3.5, Higher derivatives
10th <b>18</b> 3.6, Implicit differentiation	12th <b>19</b> 3.6, Implicit differentiation, Related rates	14th <b>20</b> 4.1, Applications of 1st derivative (increasing/decreasing, local extrema)
17th <b>21</b> 4.4, Optimization I	19th <b>22</b> 4.5, Optimization II	21st <b>23</b> 4.2, Review for test
24th <hr style="width: 100%;"/> <div style="text-align: center;">Test 2</div> <hr style="width: 100%;"/>	26th <b>24</b> 4.4/4.5, More optimization	28th <b>25</b> 4.2, Applications of 2nd derivative (concavity, inflection)
31st <b>26</b> 5.1, Exponential functions	Nov 2nd <b>27</b> 5.4, Differentiation of exponential functions	4th <b>28</b> Appendix A, Inverse functions
7th <b>29</b> 5.2, Logarithmic functions	9th <b>30</b> 5.5, Differentiation of logarithmic functions	11th <b>31</b> 5.5, Logarithmic differentiation
14th <b>32</b> 5.3/5.6, Modeling applications	16th <b>33</b> 6.1, The indefinite integral	18th <b>34</b> 6.1/6.2, More integration
21st <hr style="width: 100%;"/> <div style="text-align: center;">Thanksgiving Break</div> <hr style="width: 100%;"/>	23rd <hr style="width: 100%;"/> <div style="text-align: center;">Thanksgiving Break</div> <hr style="width: 100%;"/>	25th <hr style="width: 100%;"/> <div style="text-align: center;">Thanksgiving Break</div> <hr style="width: 100%;"/>
28th <b>35</b> 6.3, Area and the definite integral	30th <b>36</b> 6.3, Area and the definite integral	Dec 2nd <b>37</b> 6.4, The Fundamental Theorem of Calculus
5th <b>38</b> 6.4, The Fundamental Theorem of Calculus, Review for test	7th <hr style="width: 100%;"/> <div style="text-align: center;">Test 3</div> <hr style="width: 100%;"/>	9th <b>39</b> Mop-up of course material
12th <hr style="width: 100%;"/> <div style="text-align: center;">Final Exam Section 08, 10:30am-12:30pm</div> <hr style="width: 100%;"/>	14th <hr style="width: 100%;"/> <div style="text-align: center;">Final Exam Section 03, 8:00am-10:00am</div> <hr style="width: 100%;"/>	16th <hr style="width: 100%;"/> <div style="text-align: center;">Final Exam Section 03, 8:00am-10:00am</div> <hr style="width: 100%;"/>