

# Schedule

A week-by-week breakdown of the material.

## Week 1 (09/07-9/11)

**Day 1** Review of Calc 1<sup>1</sup>

**Day 2** Review of Calc 1 (cont)<sup>2</sup>

**Day 3** Review of Calc 1 (cont 2)<sup>3</sup>

Area between graphs (6.1)<sup>4</sup>

**Day 4** Volumes and Mean Value Theorem for integrals (6.2)<sup>5</sup>

## Week 2 (09/14-09/18)

**Day 1** Volumes and Mean Value Theorem for integrals (6.2 cont)<sup>6</sup>

**Day 2** Volumes of revolution (6.3)<sup>7</sup>

**Day 3** Volumes of revolution (6.3 cont)<sup>8</sup>

**Day 4** Shell method (6.4)<sup>9</sup>

## Week 3 (09/21-09/25)

**Day 1** The exponential function (7.1)<sup>10</sup>

**Day 2** The exponential function (cont) (7.1)<sup>11</sup>

**Day 3** Inverse functions (7.2)<sup>12</sup>

**Day 4** Inverse functions (cont) (7.2)<sup>13</sup>

## Week 4 (09/28-10/02)

**Day 1** Logarithms (7.3)<sup>14</sup>

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<sup>1</sup>[notes/calc1\\_review.html](#)

<sup>2</sup>[notes/calc1\\_review.html](#)

<sup>3</sup>[notes/calc1\\_review.html](#)

<sup>4</sup>[notes/area\\_graphs.html](#)

<sup>5</sup>[notes/volumes.html](#)

<sup>6</sup>[notes/volumes.html](#)

<sup>7</sup>[notes/volumes\\_revolution.html](#)

<sup>8</sup>[notes/volumes\\_revolution.html](#)

<sup>9</sup>[notes/volumes\\_shell.html](#)

<sup>10</sup>[notes/exponential.html](#)

<sup>11</sup>[notes/exponential.html](#)

<sup>12</sup>[notes/inverse\\_functions.html](#)

<sup>13</sup>[notes/inverse\\_functions.html](#)

<sup>14</sup>[notes/logarithms.html](#)

**Day 2** Logarithms (cont) (7.3)<sup>15</sup>

**Day 3** Logarithms (cont) (7.3)<sup>16</sup>

**Day 4** Exponential Growth and Decay (7.4)<sup>17</sup>

Compound Interest (7.5)<sup>18</sup>

## **Week 5 (10/05-10/09)**

**Day 1** Review / Catchup

**Day 2** **MIDTERM 1** (study guide<sup>19</sup>)

**Day 3** L'Hospital's Rule (7.7)<sup>20</sup>

**Day 4** L'Hospital's Rule (7.7) cont<sup>21</sup>

## **Week 6 (10/12-10/16)**

**Day 1** Comparative growth of functions (7.7)<sup>22</sup>

**Day 2** Comparative growth of functions (7.7)<sup>23</sup>

**Day 3** Inverse Trigonometric Functions (7.8)<sup>24</sup>

Day 4

## **Week 7 (10/19-10/23)**

**Day 1** Fall Break

**Day 2** Inverse Trigonometric Functions (7.8, cont)<sup>25</sup>

**Day 3** Hyperbolic Functions (7.9)<sup>26</sup>

**Day 4** Integration by parts (8.1)<sup>27</sup>

## **Week 8 (10/26-10/30)**

**Day 1** Integration by parts (8.1 cont)<sup>28</sup>

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<sup>15</sup>[notes/logarithms.html](#)

<sup>16</sup>[notes/logarithms.html](#)

<sup>17</sup>[notes/exponential\\_growth.html](#)

<sup>18</sup>[notes/compound\\_interest.html](#)

<sup>19</sup>[notes/midterm1\\_study\\_guide.html](#)

<sup>20</sup>[notes/lhopital.html](#)

<sup>21</sup>[notes/lhopital.html](#)

<sup>22</sup>[notes/growth.html](#)

<sup>23</sup>[notes/growth.html](#)

<sup>24</sup>[notes/inverse\\_trig.html](#)

<sup>25</sup>[notes/inverse\\_trig.html](#)

<sup>26</sup>[notes/hyperbolic.html](#)

<sup>27</sup>[notes/integration\\_parts.html](#)

<sup>28</sup>[notes/integration\\_parts.html](#)

- Day 2** Trigonometric Integrals (8.2)<sup>29</sup>  
**Day 3** Trigonometric Integrals (8.2)<sup>30</sup>  
**Day 4** Trigonometric Substitution (8.3)<sup>31</sup>

## Week 9 (11/02-11/06)

- Day 1** Trigonometric Substitution (8.3) cont<sup>32</sup>  
**Day 2** Trigonometric Substitution (8.3) cont<sup>33</sup>  
**Day 3** Method of Partial Fractions (8.5)<sup>34</sup>  
**Day 4** Method of Partial Fractions (8.5)<sup>35</sup>

## Week 10 (11/09-11/13)

- Day 1** **MIDTERM** (study guide<sup>36</sup>)  
**Day 2** Method of Partial Fractions (8.5)<sup>37</sup>  
**Day 3** Method of Partial Fractions (8.5)<sup>38</sup>  
**Day 4** Improper Integrals (8.6)<sup>39</sup>

## Week 11 (11/16-11/20)

- Day 1** Improper Integrals (8.6)<sup>40</sup>  
**Day 2** Improper Integrals (8.6)<sup>41</sup>  
**Day 3** Numerical Integration (8.8)<sup>42</sup>  
**Day 4** Taylor Polynomials (9.4)<sup>43</sup>

## Week 12 (11/23-11/27)

- Day 1** Taylor Polynomials (9.4)<sup>44</sup>

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<sup>29</sup>[notes/integrals\\_trig.html](#)

<sup>30</sup>[notes/integrals\\_trig.html](#)

<sup>31</sup>[notes/integrals\\_trig\\_subst.html](#)

<sup>32</sup>[notes/integrals\\_trig\\_subst.html](#)

<sup>33</sup>[notes/integrals\\_trig\\_subst.html](#)

<sup>34</sup>[notes/integrals\\_partial.html](#)

<sup>35</sup>[notes/integrals\\_partial.html](#)

<sup>36</sup>[notes/midterm2\\_study\\_guide.html](#)

<sup>37</sup>[notes/integrals\\_partial.html](#)

<sup>38</sup>[notes/integrals\\_partial.html](#)

<sup>39</sup>[notes/integrals\\_improper.html](#)

<sup>40</sup>[notes/integrals\\_improper.html](#)

<sup>41</sup>[notes/integrals\\_improper.html](#)

<sup>42</sup>[notes/integrals\\_numerical.html](#)

<sup>43</sup>[notes/taylor.html](#)

<sup>44</sup>[notes/taylor.html](#)

**Day 2** THANKSGIVING

**Day 3** THANKSGIVING

**Day 4** THANKSGIVING

### **Week 13 (12/01-12/04)**

**Day 1** Arc Length (9.1)

**Day 2** Arc Length (9.1)

**Day 3** Parametric Equations (12.1)

**Day 4** Arc Length and Area (12.2)

### **Week 14 (12/07-12/11)**

**Day 1** Polar Coordinates (12.3)

**Day 2** Area and Arc Length in polar coordinates (12.4)

**Day 3** Conic sections (12.5)

**Day 4** Catchup