

| MONDAY                                                                                                                               | TUESDAY                                                                                                       | WEDNESDAY                                                                                              | THURSDAY                                                    | FRIDAY                                                                                         |
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| <div>Jan 13th</div> Review of Calc I Integration<br>A: Antiderivative Review<br>A: Indefinite Integral Dominoes                      | 14th<br>5.5 - Change of Variables ( $u$ -Substitution)<br>A: Mechanics of $u$ -Sub<br>A: Identifying $u$ -Sub | 15th<br>7.1 - Integration by Parts<br>A: Integration by Parts<br>WebAssign - Review of Integration     | 16th<br>P: Geometric Interpretation of $u$ -sub<br>HW 1 due | 17th<br>7.1 - Integration by Parts (cont)<br>WebAssign 5.5 - $u$ -sub                          |
| 20th<br>MLK Jr Day<br>No Classes                                                                                                     | 21st<br>7.2 - Trig Integrals<br>A: Trig Integrals with Sin and Cos<br>WebAssign 7.1 - Integration by Parts    | 22nd<br>7.2 - Trig Integrals (cont)<br>A: Trig Integrals with Sec and Tan                              | 23rd<br>P: Integral Sorting<br>HW 2 due                     | 24th<br>7.3 - Trig Sub<br>WebAssign 7.2 - Trig Integrals                                       |
| 27th<br>7.3 - Trig Sub (cont)                                                                                                        | 28th<br>7.4 - Partial Fractions<br>A: Partial Fractions<br>WebAssign 7.3 - Trig Sub                           | 29th<br>7.4 - Partial Fractions (cont)<br>A: Integrals Big Picture                                     | 30th<br>P: Approximate Integration<br>HW 3 due              | 31st<br>7.8 - Improper Integrals<br>A: Improper Integrals<br>WebAssign 7.4 - Partial Fractions |
| <div>Feb 3rd</div> 7.8 - Improper Integrals (cont)<br>A: Comparison of Improper Integrals<br>WebAssign 7.7 - Approximate Integration | 4th<br>6.1 - Area Between Curves<br>6.2 - Volumes of Solids with Known Cross Sections                         | 5th<br>6.2 - Volumes by Cross Sections - Method of Disks/Washers<br>WebAssign 7.8 - Improper Integrals | 6th<br>P: Solids with Known Cross Sections<br>HW 4 due      | 7th<br>6.3 - Volumes by Shells<br>WebAssign 6.1 - Areas                                        |

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| 10th<br>In-class Review<br><br>Midterm Exam 1<br>5:45pm-7:15pm                                                  | 11th<br>6.3 - Volumes by Shells (cont)<br><br>WebAssign 6.2 - Volumes by Cross Sections | 12th<br>6.5 - Average Value of Function<br><br>WebAssign 6.3 - Volumes by Shells      | 13th<br>P: Area and Volume Practice<br><br>HW 5 due         | 14th<br>6.4 - Work<br><br>A: Applications of Integration<br><br>WebAssign 6.5 - Avg Value                                     |
| 17th<br>6.4 - Work (cont)<br><br>8.3 - Center of Mass                                                           | 18th<br>8.3 - Center of Mass (cont)<br><br>WebAssign 6.4 - Work                         | 19th<br>10.1 - Parametric Equations<br><br>WebAssign 8.3 - Moments and Center of Mass | 20th<br>P: Parametric Matching<br><br>HW 6 due              | 21st<br>10.2 - Calculus with Parametric Equations (Skip 2nd Derivatives & Areas)<br><br>WebAssign 10.1 - Parametric Equations |
| 24th<br>8.1 & 10.2 - Arc Length<br><br>A: Arc Length<br><br>WebAssign 10.2 - Calculus with Parametric Equations | 25th<br>8.1 & 10.2 - Arc Length (cont)                                                  | 26th<br>10.3 - Intro to Polar Coordinates<br><br>WebAssign 8.1/10.2 - Arc Length      | 27th<br>P: Polar Coordinate Practice<br><br>HW 7 due        | 28th<br>10.4 - Calculus with Polar Coordinates<br><br>WebAssign 10.3 - Polar Coordinates                                      |
| Mar 3rd<br>10.4 - Calculus with Polar Coordinates (cont)                                                        | 4th<br>11.1 - Sequences<br><br>WebAssign 10.4 - Calculus with Polar                     | 5th<br>11.1 - Sequences (cont)                                                        | 6th<br>P: Sorting Rates of Growth and Decay<br><br>HW 8 due | 7th<br>11.2 - Series<br><br>WebAssign 11.1 - Sequences                                                                        |
| 10th<br>In-class Review<br><br>Midterm Exam 2<br>5:45pm-7:15pm                                                  | 11th<br>11.2 - Series (cont)                                                            | 12th<br>A: Geometric Series                                                           | 13th<br>P: Integral Test<br><br>HW 9 due                    | 14th<br>11.3 - Integral Test, $p$ -series<br><br>WebAssign 11.2 - Series                                                      |

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| 17th<br>A: Direct and Limit Comparison Tests<br>WebAssign 11.3 - $p$ -Series and Integral Test | 18th<br>11.4 - Comparison Tests<br>A: Comparison Test Practice                                         | 19th<br>11.5 - Alternating Series<br>A: Alternating Series Test                    | 20th<br>P: Comparison Test Big Picture<br>HW 10 due         | 21st<br>Extra Series Practice<br>WebAssign 11.4 - Comparison Tests                                            |
| 24th<br>Spring Break<br>No Classes                                                             | 25th<br>Spring Break<br>No Classes                                                                     | 26th<br>Spring Break<br>No Classes                                                 | 27th<br>Spring Break<br>No Classes                          | 28th<br>Spring Break<br>No Classes                                                                            |
| 31st<br>11.5 - Absolute Convergence<br>WebAssign 11.5 - Alternating Series                     | Apr 1st<br>11.6 - Ratio Test                                                                           | 2nd<br>A: Series Matching<br>WebAssign 11.5/11.6 - Absolute Convergence/Ratio Test | 3rd<br>P: Series Big Picture<br>HW 11 due                   | 4th<br>11.5 - Series Approximation (Alternating Series Remainder)<br>A: Alternating Series Remainder Estimate |
| 7th<br>11.3 - Series Approximation (Integral Test Remainder)                                   | 8th<br>A: Intro to Taylor Polynomials<br>WebAssign 11.5/11.3 - AST & Integral Test Remainder Estimates | 9th<br>11.10 - Taylor Polynomials                                                  | 10th<br>P: Intro to Power Series<br>HW 12 due               | 11th<br>11.8 - Power Series<br>WebAssign 11.10 - Taylor Polynomials                                           |
| 14th<br>In-class Review<br>Midterm Exam 3 5:45pm-7:15pm                                        | 15th<br>11.9 - Representing Functions with Power Series                                                | 16th<br>11.10 - Taylor Series<br>WebAssign 11.8 - Power Series                     | 17th<br>P: Making New Series from Power Series<br>HW 13 due | 18th<br>11.10 - Taylor Series (cont)<br>WebAssign 11.9 - Power Series Rep. of Functions                       |

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| 21st<br>A: Building New Taylor Series from Old<br><br>WebAssign 11.10 - Taylor Series (part 1)  | 22nd<br>11.11 - Error in Taylor Series | 23rd<br>11.11 - Error in Taylor Series (cont)<br><br>WebAssign 11.10 - Taylor Series (part 2)                                           | 24th<br>P: Taylor Polynomial Remainder Practice<br><br>HW 14 due                         | 25th<br>A: Taylor Series Matching |
| 28th<br>A: Taylor Series Applications<br><br>WebAssign 11.11 - Taylor Series Remainder Estimate | 29th<br>9.1 - Differential Equations   | 30th<br>9.3 - Separable Differential Equations<br><br>A: Separable Differential Equations<br><br>WebAssign 9.1 - Differential Equations | <div>May 1st</div> P: Review<br><br>HW 15 due<br><br>WebAssign 9.3 - Separable Equations | 2nd<br>Reading Day<br>No Classes  |
| 5th                                                                                             | 6th<br>Final Exam<br>10:30am-1:00pm    | 7th                                                                                                                                     | 8th                                                                                      | 9th                               |