

# AUGUST

## 2023

| SUNDAY | MONDAY   | TUESDAY | WEDNESDAY   | THURSDAY | FRIDAY   | SATURDAY |
|--------|--|---------|---|----------|--|----------|
|        |  | 1       | 2   | 3        | 4  | 5        |
| 6      | 7  | 8       | 9   | 10       | 11   | 12       |
| 13     | 14   | 15      | 16  | 17       | 18   | 19       |
| 20     | 21   | 22      | 23<br><i>First Day of Class</i><br>Mathematical<br>Models and<br>Direction Fields | 24       | 25<br>Solutions of Some<br>Differential<br>Equations<br><i>Syllabus Quiz</i> | 26       |
| 27     | 28<br>Classification of<br>Differential<br>Equations<br><i>Homework 1 Posted</i><br><i>Quiz: Modeling &amp;<br/>Direction Fields</i> | 29      | 30<br>Linear Equations;<br>Integrating Factors                                    | 31       |  |          |

# SEPTEMBER 2023

| SUNDAY                                | MONDAY   | TUESDAY                               | WEDNESDAY  | THURSDAY                              | FRIDAY   | SATURDAY                              |
|---------------------------------------|--|---------------------------------------|--|---------------------------------------|--|---------------------------------------|
|                                       |  |                                       |  |                                       | Separable Equations <span style="float: right;">1</span><br><br>Quiz: Basics and Classification of Differential Eq'ns                                | <span style="float: right;">2</span>  |
| <span style="float: right;">3</span>  | Labor Day <span style="float: right;">4</span><br><br>Homework 2 Posted  | <span style="float: right;">5</span>  | Exact Equations <span style="float: right;">6</span><br><br>Quiz: Linear Equations and Integrating Factors | <span style="float: right;">7</span>  | Existence and Uniqueness Theorem <span style="float: right;">8</span><br><br>Quiz: Separable Equations   | <span style="float: right;">9</span>  |
| <span style="float: right;">10</span> | Exam I Review <span style="float: right;">11</span><br><br>Quiz: Exact Equations   | <span style="float: right;">12</span> | Exam I Review <span style="float: right;">13</span>  | <span style="float: right;">14</span> | <b>Exam I</b> <span style="float: right;">15</span>  | <span style="float: right;">16</span> |
| <span style="float: right;">17</span> | Homogeneous Equations with Constant Coeff's <span style="float: right;">18</span>  | <span style="float: right;">19</span> | Solutions of Linear Homogeneous Equations; the Wronskian <span style="float: right;">20</span>             | <span style="float: right;">21</span> | Solutions of Linear Homogeneous Equations; the Wronskian <span style="float: right;">22</span><br><br>Quiz: Homogen's Eq'ns w/ Constant Coefficients | <span style="float: right;">23</span> |
| <span style="float: right;">24</span> | Complex Roots of Characteristic Eq'n <span style="float: right;">25</span><br><br>Homework 3 Posted<br><br>Quiz: Solutions of Linear Homogen's Equations | <span style="float: right;">26</span> | Repeated Roots; Reduction of Order <span style="float: right;">27</span>                                   | <span style="float: right;">28</span> | Method of Undetermined Coefficients <span style="float: right;">29</span><br><br>Quiz: Complex Roots of the Characteristic Eq'n                      | <span style="float: right;">30</span> |

# OCTOBER 2023

| SUNDAY | MONDAY  | TUESDAY | WEDNESDAY   | THURSDAY      | FRIDAY  | SATURDAY |
|--------|---|---------|---|---------------|---|----------|
| 1      | Variation of Parameters 2<br>Quiz: Repeated Roots of the Characteristic Eq'n                            | 3       | Variation of Parameters 4                           | 5             | Power Series 6<br>Quiz: Method of Undetermined Coefficients       | 7        |
| 8      | Series Solutions Near an Ordinary Point, Part I 9<br>Homework 4 Posted<br>Quiz: Variation of Parameters | 10      | Series Solutions Near an Ordinary Point, Part II 11 | Fall Break 12 | Fall Break 13   | 14       |
| 15     | Euler Equations 16<br>Quiz: Power Series  | 17      | Exam II Review 18                                   | 19            | Exam II Review 20<br>Quiz: Series Solutions of Differential Eq'ns | 21       |
| 22     | Exam II 23  | 24      | Definition of the Laplace Transform 25              | 26            | Definition of the Laplace Transform 27                            | 28       |
| 29     | Solutions of Initial Value Problems 30<br>Homework 5 Posted<br>Quiz: the Laplace Transform              | 31      |   |               |   |          |

# NOVEMBER

## 2023

| SUNDAY | MONDAY  | TUESDAY | WEDNESDAY             | THURSDAY              | FRIDAY  | SATURDAY |
|--------|---|---------|-----------------------|-----------------------|---|----------|
|        |   |         | Step Functions 1      | 2                     | Impulse Functions 3<br>Quiz: Solutions of<br>In't'l Value Probs | 4        |
| 5      | Convolution Integral 6<br>Homework 6 Posted<br>Quiz: Step Functions   | 7       | Euler Method 8        | 9                     | Euler Method 10<br>Quiz: Impulse Functions                      | 11       |
| 12     | Runge-Kutta Method 13<br>Quiz: the Convolution Integral               | 14      | Exam III Review 15    | 16                    | Exam III Review 17<br>Quiz: Euler Method                        | 18       |
| 19     | Exam III 20   | 21      | Thanksgiving Break 22 | Thanksgiving Break 23 | Thanksgiving Break 24   | 25       |
| 26     | Final Exam Review 27<br>Homework 7 Posted<br>Quiz: Runge-Kutta Method | 28      | Final Exam Review 29  | 30                    | Final Exam Review 1   | 2        |

# DECEMBER

## 2023

| SUNDAY | MONDAY   | TUESDAY  | WEDNESDAY           | THURSDAY           | FRIDAY              | SATURDAY |
|--------|--|--|---------------------|--------------------|---------------------|----------|
| 3      | Final Exam Review 4<br><a href="#">Homework 8 Posted</a> | 5  | Final Exam Review 6 | 7                  | Final Exam Review 8 | 9        |
| 10     | Final Exam Week 11                                       | Final Exam Week 12<br>Final Exam<br>1:00 to 4:00 PM<br>Mulvane 202 | Final Exam Week 13  | Final Exam Week 14 | Final Exam Week 15  | 16       |
| 17     | 18   | 19   | 20                  | 21                 | 22                  | 23       |
| 24     | 25   | 26   | 27                  | 28                 | 29                  | 30       |
| 31     |  |  |                     |                    |                     |          |