

For each day, watch the video (canvas)/read the pages listed/do the problem(s) before class and be prepared for a daily quiz and class discussion. All assignments listed are pre-class assignments and are due at the beginning of class.

| Monday                                                                                                                     | Wednesday                                                                                                          | Friday                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>August 27</b><br>Logistics                                                                                              | <b>29</b><br>1.1 Vectors and Matrices<br>video, p. 1-6,11,15, Essay 1 due                                          | <b>31</b><br>1.1 Vector Spaces<br>video, p.11-14, 15-16, E.C. deadline                                                    |
| <b>September 3*</b><br>1.1 Vector Spaces<br>problem                                                                        | <b>5</b> 1.2 and 1.3 Systems, Row<br>Reduction, and Echelon Forms<br>video, p. 28-35, 47-49, 54-56                 | <b>7</b> 1.2 and 1.3 Sys, Row Red.<br>Echelon Form<br>video, Quiz (1.1), WeBWorK 1, visit deadline                        |
| <b>10</b><br>1.3 Systems of Equations<br>problem                                                                           | <b>12+</b><br>1.3&1.4 Spans and Column Spaces<br>video, p.57-60, 75-76                                             | <b>14</b> 1.3 and 1.4 Spans and Subspaces<br>video, p.77-78, 83-85, Quiz (1.2,1.3, property<br>★ and prop 1.2), WeBWork 2 |
| <b>17</b><br>1.4 Subspaces                                                                                                 | <b>19</b><br>1.3 & 1.4 Spans and Subspaces<br>problems                                                             | <b>21</b><br>Exam Review                                                                                                  |
| <b>24</b><br><b>Midterm 1</b><br>WeBWorK 3 due                                                                             | <b>26</b><br>1.4 Matrix/Vector Multiplication<br>and the Nullspace of a Matrix                                     | <b>28</b><br>1.1&2.1 Linear Independence and Linear De-<br>pendence, videos, p.78-82,WeBWorK 4                            |
| <b>October 1</b><br>2.1 Linear Indep. and Linear Dep.<br>videos, p.8-10,97-103                                             | <b>3</b><br>2.1 Basis of a Vector Space<br>problem, p.103-106,82-84                                                | <b>5</b><br>2.2 Dimension of a Vector Space<br>video, Quiz, WeBWork 5 due                                                 |
| <b>8</b><br>2.2 Dimension of a Vector Space<br>p.114-122, use video for Def. 2.4                                           | <b>10</b><br>2.3 Row Space and the Rank-Nullity<br>Theorem p.132-137,139, problem                                  | <b>12</b><br>2.3 Rank, Nullity, and Non-singular Matrices<br>WeBWork 6 due, p.137-141, Quiz                               |
| <b>15</b><br>3.1 Non-singular Matrices and Lin-<br>ear Transforms: video, p.149-156                                        | <b>17</b><br>Exam Review                                                                                           | <b>19</b><br><b>Midterm 2</b><br>WeBWorK 7 due                                                                            |
| <b>22</b><br>3.1 Linear Transformations<br>video p.153-156                                                                 | <b>24×</b><br>3.1 Linear Transformations<br>video                                                                  | <b>26</b><br>3.2 Matrix Multiplication, no weekly quiz<br>video, read 3.2, problem, WeBWork 8 due                         |
| <b>29</b><br>3.3 Inverses<br>video, read all of 3.3 (feel free to de-<br>fault to the video if you prefer)                 | <b>31 HAPPY HALLOWEEN!!</b><br>3.3 Inverses<br>problem<br>candy and presents!                                      | <b>November 2</b><br>3.5 Coordinate Vectors<br>video, p.215-218, Quiz, WeBWork 9 due                                      |
| <b>5</b><br>3.5 Coordinate Vectors and the Ma-<br>trix of a Linear Transformation<br>video, p.222-223,228, not rest of 3.5 | <b>7</b><br>3.5 The Matrix of a Linear Transfor-<br>mation: use video and handouts not<br>the text for rest of 3.5 | <b>9</b><br>4.1 Definition of the Determinant<br>video, p.238-244, Quiz, WeBWork 10 due                                   |
| <b>12</b><br>Exam Review, problem                                                                                          | <b>14</b><br><b>Midterm 3</b>                                                                                      | <b>16 donuts!</b><br>4.1&4.2 Determinants: p. 238-244, 252-255                                                            |
| <b>19</b><br><i>Thanksgiving Break</i>                                                                                     | <b>21</b><br><i>Thanksgiving Break</i>                                                                             | <b>23</b><br><i>Thanksgiving Break</i>                                                                                    |
| <b>26</b><br>4.1&4.2 Determinants<br>5.1 Eigenvectors video read 5.1                                                       | <b>28</b><br>5.1&5.2 Eigenvectors and Diagonal-<br>ization read 5.2, problem                                       | <b>30</b><br>5.1&5.2 Eigenvectors and Diagonalization<br>Quiz, WeBWorK 11 due                                             |
| <b>December 3</b><br>5.3 Complex Eigenvalues and Eigen-<br>vectors video, read 5.3                                         | <b>5</b><br>5.3 Complex Eigenvectors and<br>Eigenvalues                                                            | <b>7</b><br>Exam Review/Final Exam Information<br>Essay 2 and WeBWorK 12 due                                              |
| <b>10 FINAL EXAM</b><br>Section 1 (11:15-12:05)<br>10:30am-12:30pm Roop G010                                               | <b>12 FINAL EXAM</b><br>Section 2 (12:20-1:10)<br>10:30am-12:30pm Roop G010                                        | <b>14</b>                                                                                                                 |

\*September 4 drop deadline + September 13 late add deadline × October 25 course adjustment deadline

Last Update: November 26, 2018