## CS 4320: Machine Learning
### Spring 2019 Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Reading</th>
<th>Work Due</th>
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<tbody>
<tr>
<td>Jan 7</td>
<td>Introduction to Machine Learning</td>
<td>Chapter 1</td>
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<tr>
<td>W01</td>
<td>Loading and Visualizing Data</td>
<td>Chapter 2</td>
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<tr>
<td>W01</td>
<td>Pre-processing Data</td>
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<tr>
<td>W01</td>
<td>Training Models</td>
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<td>W01</td>
<td>Tuning Models</td>
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<td>W01</td>
<td>Evaluating Models</td>
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<td>W01</td>
<td>Deploying Models</td>
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<td>W01</td>
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<td><strong>Assignment 1</strong></td>
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<tr>
<td>Jan 14</td>
<td>Cross-Validation</td>
<td>Chapter 2</td>
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<td>W02</td>
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<td><strong>Assignment 2</strong></td>
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<tr>
<td>H Jan. 21</td>
<td><em>Martin Luther King Jr. Day</em> (no classes)</td>
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<tr>
<td>W03</td>
<td>Classification</td>
<td>Chapter 3</td>
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<td>W03</td>
<td>Performance Measures/Confusion Matrix</td>
<td>Chapter 3</td>
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<tr>
<td>W03</td>
<td>Error Analysis</td>
<td>Chapter 3</td>
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<tr>
<td>Jan 28</td>
<td>Linear Regression</td>
<td>Chapter 4</td>
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<td>W04</td>
<td>Gradient Descent</td>
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<td>W04</td>
<td>Learning Curves</td>
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<td>W04</td>
<td>Regularization</td>
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<td>Logistic Regression</td>
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<td>Feb 4</td>
<td>Support Vector Machines</td>
<td>Chapter 5</td>
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<tr>
<td>W05</td>
<td>Linear SVM Classification</td>
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<tr>
<td>W05</td>
<td>Nonlinear SVM Classification</td>
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<td>Feb 11</td>
<td>Decision Trees</td>
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<td>W06</td>
<td>CART</td>
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<td>H Feb. 18</td>
<td><em>President’s Day</em> (no classes)</td>
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<td>Midterm Examination</td>
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<td>Ensembles</td>
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<td>Feb 25</td>
<td>Dimensionality Reduction</td>
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<td>Mar 4</td>
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<tr>
<td>Date</td>
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<tr>
<td>Mar 11-15</td>
<td>Spring Break (no classes)</td>
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<td>Mar 18</td>
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<td>Apr 1</td>
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<td>Apr 22</td>
<td>Assignment 13</td>
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<td>Apr 24</td>
<td>Last Day of Classes</td>
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<td>Apr 25</td>
<td>Reading Day (no classes)</td>
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<td>Apr 26-May 2</td>
<td>Final Exams</td>
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<td>W May 1</td>
<td>Final Exam 09:00 am - 10:50 am</td>
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Class announcements may modify schedule from that listed above.

W01 | | W02 | Supervised Learning | |