



## Course-at-a-Glance (CAG) --- Mathematics --- Intermediate Algebra

First Semester	Second Semester
<p><b>Unit 1: Statistics</b> (5 weeks) <b>Approximate dates: August 29 – October 3, 2016</b></p> <ol style="list-style-type: none"><li>1.1 I can describe and compare data sets using summary statistics. (9.4.1.1, 9.4.1.2, 9.4.1.4)</li><li>1.2 I can create and analyze graphical displays of data sets. (9.4.1.1, 9.4.1.2)</li><li>1.3 I can obtain information, make predictions, and justify conclusions using statistical thinking. (9.4.2.1, 9.4.2.2, 9.4.2.3)</li></ol>	<p><b>Unit 5: Functions</b> (3 weeks) <b>Approximate dates: January 24 – February 16, 2017</b></p> <ol style="list-style-type: none"><li>5.1 I can identify functions in their multiple representations. (9.2.1.1, 9.2.1.2)</li><li>5.2 I can use function notation to describe functions algebraically. (9.2.1.1)</li><li>5.3 I can obtain information and describe a graph using the vocabulary of functions. (9.2.1.3, 9.2.1.4, 9.2.1.8)</li></ol>
<p><b>Unit 2: Advanced Solving</b> (5 weeks) <b>Approximate dates: October 4 – November 14, 2016</b></p> <ol style="list-style-type: none"><li>2.1 I can obtain information, draw conclusions and make predictions from linear relationships using a table, sequence, situation, or graph. (9.2.1.4, 9.2.2.1)</li><li>2.2 I can obtain information and solve problems involving linear relationships using algebraic methods. (9.2.1.4, 9.2.2.1, 9.2.3.7)</li><li>2.3 I can use scatterplots and correlation coefficients to obtain information, make predictions, and justify conclusions. (9.4.1.3, 9.4.2.3)</li></ol>	<p><b>Unit 6: Transformations</b> (3 weeks) <b>Approximate dates: February 21 – March 13, 2017</b></p> <ol style="list-style-type: none"><li>6.1 I can identify parent functions including linear, absolute value, quadratic, square root, and exponential functions. (9.2.2.3)</li><li>6.2 I can identify, describe and apply a variety of transformations to functions. (9.2.1.9)</li><li>6.3 I can identify and describe how transformations affect the multiple representations of a parent function. (9.2.2.3, 9.3.4.6)</li></ol>
<p><b>Unit 3: Inequalities</b> (3 weeks) <b>Approximate dates: November 15 – December 9, 2016</b></p> <ol style="list-style-type: none"><li>3.1 I can create a graph of an inequality in one and two variables, and analyze its meaning in context. (9.2.4.4, 9.2.4.6)</li><li>3.2 I can obtain information and solve problems involving linear inequalities using graphical methods. (9.2.4.1, 9.2.4.4, 9.2.4.5)</li></ol>	<p><b>Unit 7: Quadratics</b> (6 weeks) <b>Approximate dates: March 14 – May 2, 2017</b></p> <ol style="list-style-type: none"><li>7.1 I can identify the critical points of a quadratic function and use them to obtain information, make predictions, and justify conclusions. (9.2.1.5, 9.2.1.6)</li><li>7.2 I can translate among multiple representations and forms of quadratic equations. (9.2.1.5, 9.2.1.6, 9.2.2.1, 9.2.2.3, 9.2.3.3, 9.2.4.1)</li></ol>
<p><b>Unit 4: Exponential Models</b> (4 weeks) <b>Approximate dates: December 19, 2016 – January 23, 2017</b></p> <ol style="list-style-type: none"><li>4.1 I can obtain information, draw conclusions, and make predictions from exponential relationships using a table, sequence, situation or graph. (9.2.4.2)</li><li>4.2 I can obtain information and solve problems involving exponential relationships using algebraic methods. (9.2.4.2)</li><li>4.3 I can use exponential models to obtain information, make predictions, and justify conclusions. (9.2.2.2)</li></ol>	<p><b>Unit 8: Probability</b> (6 weeks) <b>Approximate dates: May 3 – June 14, 2017</b></p> <ol style="list-style-type: none"><li>8.1 I can use experimental probabilities to make predictions and justify conclusions. (9.4.3.1, 9.4.3.2, 9.4.3.3, 9.4.3.4)</li><li>8.2 I can create theoretical models to obtain information and solve problems. (9.4.3.1, 9.4.3.5, 9.4.3.7, 9.4.3.8)</li><li>8.3 I can use Venn diagrams to obtain information and solve problems involving probability. (9.4.3.6, 9.4.3.7)</li></ol>