



# Batavia High School Course Syllabus

<b>Course Name:</b> <i>College Algebra (Dual Credit)</i>													
<p><b>Teacher:</b> <i>Ms. Kate Ryterske</i></p> <p><b>Teacher Contact Info:</b>  <b>email:</b> <a href="mailto:kathryn.ryterske@bps101.net">kathryn.ryterske@bps101.net</a>  <b>phone:</b> (630)937-8972  <b>webpage:</b>  <a href="https://sites.google.com/a/bps101.net/kateryterske-math/home">https://sites.google.com/a/bps101.net/kateryterske-math/home</a></p>	<p><b>Course Description:</b> <i>This college level course is designed to provide the students with basic algebraic concepts necessary to continue in other college mathematics courses. Topics include: real numbers, complex numbers, solutions of inequalities and equations, coordinate systems, functions, polynomials, rational functions, exponential and logarithmic functions, graphing and transformations of functions, and systems of equations.</i></p> <p><i>Students enrolled in this course will have the option to receive Dual Credit for this course from Waubensee Community College. This course is the equivalent of MTH 129 (Pre-Calculus I; WCC text book: Coburn, John W and Coffelt, Jeremy P. <u>College Algebra</u>, 3rd Edition. McGraw-Hill. 2014) at WCC. Students and parents pursuing Dual Credit should confer with their potential college choices about the transferability of this course.</i></p>												
<p><b>Required Materials:</b> <i>Pens/#2 pencils Paper (loose leaf and graph paper) A graphing calculator (TI-83) or similar</i></p> <p><b>Textbook Information:</b> <i>None</i></p>	<p><b>Prerequisite:</b> <i>Precalculus with Trigonometry</i></p>												
<p><b>Course Fee:</b> <i>dual credit fee</i></p>	<p><b>Special Dates:</b> <i>TBA</i></p>												
<p><b>Essential Learnings:</b></p> <ol style="list-style-type: none"> <li><b>Unit 1:</b> <i>Basic Algebra, Functions, and Applications</i></li> <li><b>Unit 2:</b> <i>Quadratic, Radical, and Polynomial Equations</i></li> <li><b>Unit 3:</b> <i>Rational Equations and Exponential &amp; Logarithmic Functions and Equations</i></li> <li><b>Unit 4:</b> <i>Systems of Equations, Matrices, and Mixed Solving</i></li> </ol>	<p><b>Grading/Assessments:</b></p> <table border="1"> <tr> <td><b>Types of Assessments:</b></td><td><i>Quizzes, Unit Exams with a mixture of short answer and multiple choice questions, and 2 mid-course remediation exams</i></td></tr> <tr> <td><b>Grade Calculation:</b></td><td> <i>25% Unit 1 Exam  25% Unit 2 Exam  25% Unit 3 Exam  25% Unit 4 Exam</i> <p><b><i>No extra credit will be offered in this course.</i></b></p> </td></tr> <tr> <td><b>Special Course Policies:</b></td><td><i>None</i></td></tr> <tr> <td><b>BPS Homework Policy:</b></td><td><i>6:290 policy.bps101.net</i></td></tr> <tr> <td><b>BPS Grading Policy:</b></td><td><i>6:280 policy.bps101.net</i></td></tr> <tr> <td><b><a href="#">Academic Dishonesty Policy</a></b></td><td></td></tr> </table>	<b>Types of Assessments:</b>	<i>Quizzes, Unit Exams with a mixture of short answer and multiple choice questions, and 2 mid-course remediation exams</i>	<b>Grade Calculation:</b>	<i>25% Unit 1 Exam  25% Unit 2 Exam  25% Unit 3 Exam  25% Unit 4 Exam</i> <p><b><i>No extra credit will be offered in this course.</i></b></p>	<b>Special Course Policies:</b>	<i>None</i>	<b>BPS Homework Policy:</b>	<i>6:290 policy.bps101.net</i>	<b>BPS Grading Policy:</b>	<i>6:280 policy.bps101.net</i>	<b><a href="#">Academic Dishonesty Policy</a></b>	
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<p><b><u>BARK Chart Rating System</u></b></p>	<p><b>Extra Learning &amp; Help Opportunities:</b> <i>I will be available Monday, Tuesday, Wednesday, &amp; Friday mornings in C205 from 7:00 a.m. until 7:30 a.m. for students to drop-in unless otherwise informed the previous day. I will also be available after school in C205 by appointment.</i></p>
<p><b>Zero Policy:</b></p> <ul style="list-style-type: none"> <li>• If a student is present and does not turn an assignment in it is put in as a "0". If a student is absent then a score will not be entered and student will be given a set amount of days to make-up the work.</li> <li>• If a student is not present on a test or quiz day, that student has a week to make it up. If the test is not made up within a week a "0" will be entered. If a "0" is entered, then students must go through the remediation process and take the "Retake Test" within the remediation time period. If students do not go through the remediation process, the grade remains a "0".</li> </ul> <p><b>Student Expectations for this Course:</b> <i>All students are expected to come prepared with the necessary materials, have a positive attitude, and participate in class. I expect students to work cooperatively with their peers and to ask questions when needed. It is expected that students take notes in class and when a student is absent that they make-up work and gets notes from a classmate.</i></p>	<p><b>Characteristics of Successful Students in this Course:</b> <i>Successful students will attend class regularly, come prepared, listen actively, take notes, participate in group activities, help peers, ask questions, and complete homework correctly. Successful students are also self driven and demonstrate this by creating their own goals for this course, by correcting work when needed, and by seeking out additional help when necessary.</i></p> <p><i>Additionally, Mathematically Proficient Students:</i></p> <ul style="list-style-type: none"> <li>• <i>Make sense of problems and persevere in solving them.</i></li> <li>• <i>Reason abstractly and quantitatively.</i></li> <li>• <i>Construct viable arguments and critique the reasoning of others.</i></li> <li>• <i>Model with mathematics.</i></li> <li>• <i>Use appropriate tools strategically.</i></li> <li>• <i>Attend to precision.</i></li> <li>• <i>Look for and make use of structure.</i></li> <li>• <i>Look for and express regularity in repeated reasoning.</i></li> </ul> <p><i>(based on Standards for Mathematical Practices)</i></p>
<p><b>Teacher Expectations for this Course:</b> <i>I will do everything that I can to help students succeed in my classroom. I will challenge students and help them achieve both the goals I have set and the goals that they have set for themselves. I will be available before and after school for additional help on a regular basis (see "Extra Learning &amp; Help Opportunities").</i></p>	<p><b>Remediation Statement:</b> <i>Students will have the opportunity to reassess portions of the first and second exams at approximately the end of the first term. Students will have the opportunity to reassess portions of the third and fourth exams at the end of the semester. When the student takes the reassessment, the student's performance on the new test questions will fully replace the student's performance on similar questions on the original unit test grade (either higher or lower).</i></p>