

Bridge to College Mathematics 2020-2021

Course Information

Instructor: Chris Walters
 Phone: (425) 385 – 7132
 email: cwalters@everettsd.org
 Extra Help Hours: 7-7:30 AM and 2 – 3 PM

Curriculum Material will be provided by teacher.
 Class website: <http://www.everettsd.org/jhs-cwalters>
 All instructional materials can be accessed through Canvas

Course Description

Intended for students heading for college pathways not requiring Calculus, this course emphasizes modeling with mathematics focusing on higher-order thinking skills and understanding math concepts. Topics include building and interpreting functions (linear, quadratic, and exponential), writing, solving and reasoning with equations and inequalities, and summarizing, representing, and interpreting data. The course addresses a variety of essential standards from Algebra 1, Statistics, and Geometry, plus the Algebra 2 standards and must be taught using the Bridge to College Mathematics curriculum.

Learning Outcomes

<p>EXPRESSIONS</p> <ul style="list-style-type: none"> • Create algebraic expressions from words or tables • Interpret algebraic expressions <p>PROPORTIONAL REASONING</p> <ul style="list-style-type: none"> • Convert between different units of measurement • Solve problems using proportional reasoning <p>SOLVING EQUATIONS</p> <ul style="list-style-type: none"> • Solve 1st degree equations and inequalities • Solve 2nd degree equations by factoring, square root, completing the square and quadratic formula • Solve a system of two linear equations algebraically and graphically. • Determine the number of solution for a system of two linear equations. • Solve a system of a linear and quadratic equations or two quadratic equations • Solve simple exponential equations using logarithms. <p>LINEAR FUNCTIONS</p> <ul style="list-style-type: none"> • Identify slope, intercepts, domain and range for a linear function in a graph, table, or equation • Write, graph and apply linear function given a table, graph or words. 	<p>QUADRATIC FUNCTIONS</p> <ul style="list-style-type: none"> • Understand the three forms of a quadratic function (factored, vertex, and general) • Write, graph and apply quadratic equations given a table, graph or words. <p>EXPONENTIAL FUNCTIONS</p> <ul style="list-style-type: none"> • Write, graph and apply exponential equations given a table, graph or words. • Apply exponential functions to interest problems • Understand that a logarithm is the inverse of an exponential function. <p>STATISTICAL ANALYSIS</p> <ul style="list-style-type: none"> • Choose an appropriate method for collecting data • Choose an appropriate statistical tool to analyze and report data (measure of center, box plot, 5-number summary, range, IQR, graph, standard deviation) • Choose the appropriate representation to communicate results of data
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Course Outline

<ol style="list-style-type: none"> 1. Algebraic Expressions 2. Equations 3. Measurement and Proportional Reasoning 4. Linear Functions 	<ol style="list-style-type: none"> 5. Linear Systems of Equations 6. Quadratic Functions 7. Exponential Functions 8. Summarizing and Interpreting Statistical Data
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Grades: <http://www.everettsd.org/lms>

Classwork/Assignment: 35%

Unit Tests and Projects: 65%

Letter Grade	A	A –	B +	B	B –	C +	C	C –	D +	D	F
Percent	100-93	92-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-60	59-0
GPA	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.0



Our mission is to provide a rigorous curriculum that sets high standards and prepares all students for the future.

Classroom Policies & Expectations

Grading Policy

Mathematical Explanation for all problems: (may include the following but is not limited to)

- Algebraic steps
- Verbal explanations
- Graphs, tables or pictures that are clearly labeled.
- Calculator entries, when using a calculator for computation.
- If using theorems, properties, or definitions with conditions, you must confirm the need conditions are met.
- Correct standard mathematical notation should be used.
- Decimal answers should be accurate to 3 places.
- Final answers can be equivalent to those provided in answer keys.

Classwork/Assignments (5 points each):

Expect daily assignments to practice concepts taught.
Late assignments will be accepted until unit test.

- Mathematical explanation for each problem
- Assignment corrected (different color ink)
 - Each problem marked right or wrong
 - Errors are corrected or a question is asked.
- 3 points: On time and 100% complete
- 2 points: On time and 75% complete OR Late and 100% complete
- 1 point: On time and 50% complete OR Late and 75% complete

Assessments (weighted to 100 points):

Comprised of calculator and non-calculator questions

- If you are absent the day before a test, you will still be expected to take the test.
- All tests must be completed on the day they are started.
- Multiple Choice questions: 2 points each
- Short answer questions: 5 points each
 - Correct Solution (2 points)
 - Mathematical Explanation (3 points)

Test Correction Privileges:

- Students who are absent (unexcused) on the day of the test will lose the privilege to correct that test.
- Student must complete the test correction form before the next unit test.
- Corrections will earn back $\frac{1}{2}$ the points missed up to 85%.
- Must be completed in the classroom and not during class time, unless all required daily work is complete.

Extra Credit Opportunity:

- Bonus percentage points will be added to each unit assessment for the unit's assignments.
- Overall assignment score of 97% or higher earns 3% bonus on unit assessment, 87% or higher earns 2% and 77% or higher earns 1%

Behavior Expectations

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Materials

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