

Secondary Math II: 2016-17

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Course Objectives

The focus of Secondary Mathematics II is on quadratic expressions, equations, and functions and on comparing their characteristics and behavior to those of linear and exponential relationships from Secondary Mathematics I as organized into 6 critical areas, or units. The need for extending the set of rational numbers arises, and real and complex numbers are introduced so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles, with their quadratic algebraic representations, round out the course. The Mathematical Practice Standards apply throughout each course, and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

To learn more about the Utah Core Standards, visit:

<http://www.schools.utah.gov/CURR/mathsec/Core.aspx>

Course Materials

Students will need to have the following items with them in class **EVERY DAY**:

- (1) School planner (for hall pass purposes)
- (2) At least 2 pencils or erasable pens
- (3) Colored highlighters and/or pens to correct work and organize notes
- (4) 1 or 1 ½ inch binder with dividers for math notes and homework
- (5) Notebook paper and/or graph paper

Calculator

I have classroom calculators (scientific and TI -84 Plus) so the purchase of a calculator is not necessary; however, a graphing calculator is a wonderful investment for future math classes. I recommend to students the purchase of a TI-nSpire (not the CAS version) or a TI-84 Plus. Please feel free to contact me with any further concerns/questions. There are also some really great smart phone graphing calculator apps that students can use in and out of class as well; however, on tests and quizzes, phone calculators will not be allowed.

Text

Our text this year is available online and can be accessed at the following website:

<http://www.mathematicsvisionproject.org/secondary-mathematics-ii.html> Ms. Hansen will have the necessary copies of the text for each student.

Course Requirements

Act responsibly

Take responsibility for your person, your surroundings, and your words and actions.

Come prepared to learn

Come to class prepared with all materials. Expect to work hard, think hard, and focus on understanding and mastery of the material.

Do your own work

Both Ms. Hansen and Highland High School expect academic honesty from all students. All work must be your own. Plagiarism in any form, including but not limited to copying, cheating, or stealing will be treated as a

serious offense. The first offense warrants parental and administrative involvement, and will result in disciplinary action up to and including a zero score on the assignment.

Electronics

Cell phones are allowed in class; however they **must be used responsibly**. Texting, tweeting, snapchatting, etc. should not be happening in class at all, and cell phones must be **silent**. If cell phones become a distraction in any way, they will be taken away from the student and returned at a later time. Students are also not allowed to be listening to music during class time.

Grading Procedures

Late work

Late work will incur a 50% deduction from the student's grade on that assignment.

Unit test and quiz point recovery

Unit test retakes will occasionally be offered for Secondary Math II. There will be daily quizzes on the content standards taught the previous class day, and retakes will be allowed on those up to two weeks after the test is originally given.

Absences

It is the student's responsibility to see Ms. Hansen, her website, or other students to see what work is missed during an excused absence and make arrangements with Ms. Hansen to get that work turned in. Unfortunately, it is Highland High School's policy that if an absence is not excused, work may not be made up.

A student has **one calendar week** to make up tests, quizzes, and assignments missed during an excused absence. After that time, the work is considered late and will be graded accordingly. In the event of a prolonged absence, the student's parent or guardian should contact the teacher to arrange an appropriate due date for make-up work.

Extra credit

Extra credit will also be available on occasion throughout the term and must be completed in the timeline described. *Extra credit will **not** be given at the end of the term to make up credit from missing assignments or failed tests/quizzes.*

Grading scale & weighting

Final grades will be calculated on the scale below and weighted into the following categories:

| | | |
|-----------|-----|--|
| A: 93-100 | 60% | Assessments (quizzes, tests, etc.) |
| A-: 90-92 | 40% | Assignments (classwork, homework, reflections, etc.) |
| B+: 87-89 | | |
| B: 83-86 | | |
| B-: 80-82 | | |
| C+: 77-79 | | |
| C: 73-76 | | |
| C-: 70-72 | | |
| D+: 67-69 | | |
| D: 64-66 | | |
| D-: 60-62 | | |
| F: 0-60 | | |

Disclosure Statement for Ms. Hansen's Secondary Math II Class

Fill in the following information after going through this disclosure, and turn into Ms. Hansen

As a student: It is your responsibility to come to class prepared, on task, work hard, and let other learn.

As a parent: It is your responsibility to support your student, the teacher, and help reinforce the great importance of education.

As a teacher: It is my job to make sure your student receives a good education in a safe environment. I am also available to help with any needs or concerns.

Students Name (printed): _____ Period _____

Signature of student: _____ Date _____

Parent/Guardian Name (printed): _____

Signature of Guardian: _____ Date _____

Best day time phone number* _____

please list a phone number where you can be contacted the easiest from 7am-3pm

Language(s) spoken at home _____

Any other items/issues I should be aware of

Thank you so much, I look forward to getting to know you better this year!

Ms. Hansen
Room D317