



Dinoff School

## Algebra II

**PLEASE HAVE PARENT SIGN AND RETURN.**

**Instructor: Mrs. Alyssa NeSmith**

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Parent Meetings: By appointment through email

This course will extend and develop concepts learned in Algebra I and Geometry as well as prepare students for the fundamentals need in Pre-Calculus and Calculus. Students will develop their problem solving skills and drawing connections to real-life situations to give algebra greater meaning. Graphing calculators will be used extensively to aid in data analysis and investigating mathematical concepts. Topics include systems of linear equations and inequalities, quadratic functions, matrices, functions and relations, radicals, complex numbers, exponentials, polynomial and rational functions, trigonometric ratios, sigma notation, and logarithms.

**Strands:** Number and Operations, Data Analysis and Probability, Algebra, Geometry, Measurement, Problem Solving, Reasoning and Proof, Communication, Connections, Representation

### Algebra II Grading Policy

**Grades: 90-100% = A; 80-89% = B; 70-79%= C; 60-69% = D; and below 59% = F.**

Exams: There are a total of 1900 points for the year. There are eight tests 100 points each, one midterm 200 points and one final worth 300 points scheduled for this year. Daily Quizzes are worth a total of 300 points. Interactive quizzes are worth a total of 300 points.

**\*\*\*YOUR HOMEWORK EVERY DAY IS TO STUDY FOR THE DAILY QUIZ!**

### Homework/Quizzes:

In this class **mastery** of math concepts is the goal. To have the most accurate gauge of the class's retention and concept mastery there will be **daily quizzes**.

At the end of each lecture every day, **problems will be assigned**. These problems will help you master the concepts from the lecture, and will be the study guide for the daily quiz.

The assigned problems will not be graded but instead are a tool to study for the daily quiz (homework). Daily quizzes will be given Monday through Thursday and will be worth 2.5 points each for a total of 300 points. An opportunity to ask questions concerning the homework or the lecture will be provided before the daily quiz.

\*\*\*Any failing mark received on a daily quiz **will result in the assignment of remedial problems**. These will be due in at the beginning of class the following day. The replacement grade will be the mean of the quiz grade and the remedial assignment.

Additionally there will be an **interactive quiz** every Friday (unless there is a test), where you will be asked to work a problem in front of me. These are worth 10 points each for a total of 300 points.

### Hints and Advice for this Course

1. **Pay attention in class.** The main period of instruction will be during lecture during your class period. Take notes and ask questions. I am here for you, I ask that you be here with me.
2. You can **keep track of your points**, percentile, and grade in this course easily. If you have questions about your grades, see me.
3. I recommend that you find a partner or group with whom you can study the material in this course. Talk about the information, read each other's work, study together, share notes, etc. on a regular basis so that you can keep up with the syllabus and assignments.
4. **I expect all students to abide by the honor code.** Plagiarism and cheating will not be accepted and all suspected cases will be taken to the headmaster. If confirmed, you will receive an F for this course
5. **This Syllabus is subject to change. Please keep it for the entire year.**

**We may mark key changes on the syllabus in class.**

Date	
August 14-18	Introduction/Syllabus/Placement Activities
August 16	First Day of School

August 21-25	Chapter 1: Tools of Algebra	
August 28 - September 1	Chapter 1: Tools of Algebra cont. Chapter 2: Functions, Equations, and Graphs	
September 4	<b>Labor Day NO SCHOOL</b>	
September 4- 8	Chapter 2: Functions, Equations, and Graphs cont.	
September 8	<b>Teacher Work Day</b>	
September 11-15	Chapter 2: Functions, Equations, and Graphs cont.	
September 15	Parent Teacher Conferences <b>Early Dismissal 11:30</b>	
September 18-22	Chapter 3: Linear Systems	
September 25-29	Chapter 3: Linear Systems cont.	
September 29	<b>TEST 1</b>	
October 2-6	Chapter 4: Matrices	
October 6	<b>Teacher Work Day</b>	
October 9-13	<b>Fall Break</b>	
October 16-20	Chapter 4: Matrices cont.	
October 18	<b>Progress Reports</b>	
October 23-27	Chapter 4: Matrices cont.	
October 27	<b>TEST 2</b>	
October 30- November 3	Chapter 5: Quadratic Equations and Functions	
October 31	<b>Halloween Party</b>	
November 6- 10	Chapter 5: Quadratic Equations and Functions cont.	
November 13- 17	Chapter 5: Quadratic Equations and Functions cont.	
November 16	<b>TEST 3</b>	
November 17	<b>Teacher Work Day</b>	
November 20- 24	<b>Thanksgiving Break</b>	
November 27- December 1	Chapter 6: Polynomials and Polynomial Functions	
December 4-8	Chapter 6: Polynomials and Polynomial Functions cont. Review for Midterms	
December 11- 15	<b>12th - 15th Midterms</b>	
December 18- 22	Math applications in the Real World <b>Holiday Break starts December 21<sup>st</sup>.</b>	

December 20	<b>Holiday Party</b>	
December 25-29	<b>Holiday Break</b>	
January 1-5	<b>Holiday Break</b>	
January 8-12	<b>January 8<sup>th</sup> - Students Return</b> Chapter 7: Radical Functions and Rational Exponents	
January 15	<b>MLK DAY NO SHCOOL</b>	
January 15-19	Chapter 7: Radical Functions and Rational Exponents cont.	
January 19	<b>TEST 4</b>	
January 22-26	Chapter 8: Exponential and Logarithmic Functions	
January 29-February 2	Chapter 8: Exponential and Logarithmic Functions cont. Chapter 9: Rational Functions	
February 5 - 9	Chapter 9: Rational Functions cont.	
February 12-15	Chapter 9: Rational Functions cont.	
February 15	<b>TEST 5</b>	
February 16	<b>TEACHER WORK DAY NO SCHOOL</b>	
February 19-23	<b>WINTER BREAK</b>	
February 26 March 2	Chapter 10: Quadratic Relations and Conic Sections	
March 2	<b>Dr. Seuss Day</b>	
March 5-9	Chapter 10: Quadratic Relations and Conic Sections cont.	
March 9	<b>TEST 6</b>	
March 12-16	Chapter 11: Sequences and Series	
March 14	<b>PI Day</b>	
March 16	<b>Teacher Work Day</b>	
March 19-23	Chapter 11: Sequences and Series cont. <b>21-23 ITBS Testing</b>	
March 26-30	Chapter 11: Sequences and Series	
March 30	<b>TEST 7</b>	
April 2-6	Chapter 13: Periodic Functions and Trigonometry	
April 6	<b>Field Day</b>	
April 9-13	Chapter 13: Periodic Functions and Trigonometry cont.	
April 13	<b>TEST 8</b>	
April 16-20	<b>SPRING BREAK</b>	
April 23 -27	Chapter 14: Trigonometric Identities and Equations	
April 30 - May 4	Chapter 14: Trigonometric Identities and Equations cont.	
May 7-11	Chapter 14: Trigonometric Identities and Equations cont. Review for Finals	

May 14-18	<b>Final Exams</b>	

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I have read and understand the above syllabus, the dates for the tests, midterm, and final exams.  
There will be no exceptions or extensions without a doctor's excuse.

PARENT SIGNATURE \_\_\_\_\_

STUDENT SIGNATURE \_\_\_\_\_