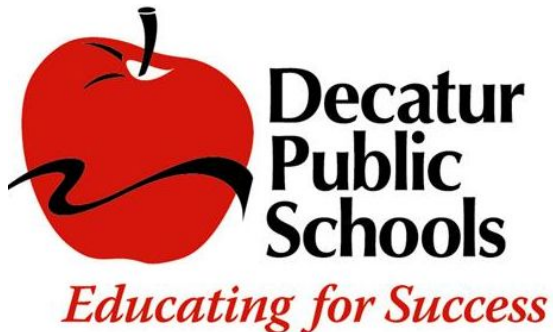


Algebra II
Course Syllabus
2016-2017



Course Description:

This course is designed as a continuation of the Algebra – Geometry sequence. Topics to be covered first semester include the language of Algebra: linear relations, matrices, systems, parabolas, quadratic equations, functions, powers and roots. Topics to be covered second semester include powers and roots, exponents and logarithms, polynomials, quadratic relations, series, combinations, statistics and trigonometry. The use of scientific calculators is assumed.

Course Units:

Semester 1

Unit 1 – Solving Equations/Inequalities	15-18 days
Unit 2 – Linear Functions	15-18 days
Unit 3 – Solving Systems of Equations/Matrices	20-25 days
Unit 4 – Quadratic Functions	25-30 days

Semester 2

Unit 5 – Polynomial Functions	20-25 days
Unit 6 – Radical Functions	15-20 days
Unit 7 – Exponential and Log Functions	20-25 days
Unit 8 – Rational Functions	15-20 days
Unit 9 – Statistics and Probability	Time Permitting

Learning Standards:

The Performance Learning Descriptors can be found on my district website. <http://www.dps61.org/Page/8576>

For a complete list of the mathematical common core standards please visit:

<http://www.corestandards.org/Math/>

For a complete list of the 8 mathematical practices please visit:

<http://www.corestandards.org/Math/Practice/>

Required Materials:

MacBook

Pencils

Pens (May only be used for note-taking)

Notebook (Used for Math only) – I suggest a three subject notebook to have extra paper for in-class work.

Folder or a Three Ring Binder for Math (Used for Math only)

Recommended: TI-84 Plus CE Calculator.

*Student will be asked to go back to their locker and come back with correct materials. If they cannot get back in time then they will need to come back with a tardy pass.

Grading Policy:

Weighted Grades

10% = Homework

25% = In Class Work (i.e. Group Work, Computer Work, Activities, Bell Ringers, Exit Slips and Projects)

20% = Formative or Summative Quizzes

45% = Assessments (Tests)

Grading Scale

100-90% A

89-80% B

79-70% C

69-60% D

59% > F

Late Work Policy

The math department will adhere to a common late work policy. Regular assignments are expected to be turned in the day they are due. Assignments turned in the following day will be graded for full credit. Assignments more than one day late will receive half credit of points earned. No assignments will be accepted for a grade after the test over that unit has been taken.

If a student misses school on a test/quiz day with an excused absence they must arrange to take the test/quiz with their instructor. Students will have 2 days after an absence to make up a missed test/quiz; failure to do so will result in a zero for that test/quiz. If a student is absent only the day before a test, they will still be required to take the test on the originally scheduled date unless new information was covered.

*Special arrangements may be made with individual teachers upon request.

Essential Learning Outcomes:

- Students will analyze linear functions graphically, numerically, analytically, and in words.
- Students will create and solve linear systems of equations graphically, numerically, analytically, and in words.

- Students will analyze and solve quadratic functions graphically, numerically, analytically, and in words, including solutions that arise in the complex number system.
- Students will be able to add, subtract, multiply, divide and factor polynomials and analyze graphs of polynomials.
- Students will analyze and solve rational/radical functions graphically, numerically, analytically, and in words.
- Students will write, evaluate, and graph logarithmic and exponential functions.
- Students will make inferences and justify conclusions from statistical experiments, sample surveys, and observational studies.

Behavior Expectations:

Respect Policy

This is a flipped classroom. There will be a little more noise than normal, but be aware of people working around you. It is okay to work with your partner and talk about problems, but you should not be disrupting other peoples work space or talking to people at other tables. Keep your hands, feet, and other objects to yourself. Be respectful to the teacher, classmates, and anyone else visiting the classroom at all times. If you have nothing nice to say, then don't say anything at all. This is a classroom, not you and your friends hanging out.

Passes Policy

As instructed by the office, passes will only be given in limited situations. Students should make sure they bring all materials to class and should use the restroom on their lunch hour or during their 5-minute passing period. Passes, if the situation seems absolutely necessary, will only be given during non-instructional time.

Tardy Policy

My door will be locked when the tardy bell has sounded. A pass is required to re-enter the classroom after this time.

Food/Drink Policy

Absolutely no food or drinks (besides closed water bottles) are allowed in my classroom. Student will be asked to discard any food or drinks.

Cell Phones and Electronic Devices

The use of cell phones and other electronic devices such as iPods is prohibited in the classroom. Two warnings to put away devices will be given to the class. If a third redirection is needed it will result in security removing the student and device from the classroom.

MacBook Policy

Students will need to have their MacBook for class. They will be able to use them for our math purposes only. They can go to our Google Classroom or Playposit.com to access the video lessons for the class. They can look up extra examples online. However if they are going to other websites and using their MacBook to email, look up YouTube clips, or anything that is not for this class, then they will not be allowed to use their MacBook in class.

Entering and Exiting the Classroom:

Upon entering the classroom students need to get required materials such as sharpening pencils and the use of a calculator if needed. Students should be ready to go when the bell rings so instructional time is not lost. The last two minutes of class may be utilized to put borrowed materials back in their location if needed; however students are to return directly to their desk. Lining up at the door in preparation to leave is unacceptable. If a ticket out is required, be ready to hand to the instructor upon leaving the room.

Absent Policy

If a student is absent, then the student has 48 hours to ask for the work that they missed after they return to school. They will have the same number of days as they missed to make up the work. If they miss one day, then they have one day to complete that work.

Original Work, Cheating, Plagiarism, and Paraphrasing Policy:

WHEN COMPLETING AN ASSIGNMENT, STUDENTS ARE EXPECTED TO DO ORIGINAL WORK FOR THE ASSIGNMENT AND TO NOT REUSE WORK THEY MAY HAVE DONE IN PREVIOUS COURSES. (YOUR RESPONSES SHOULD NOT BE IDENTICAL TO THE RESPONSE OF SOMEONE IN THE CLASS. IF YOU WORK WITH A PEER ON ASSIGNMENTS, EACH PERSON MUST SUBMIT THE ASSIGNMENTS IN THEIR OWN WORDS.)

CHEATING CAN BE DEFINED AS “THE GIVING OR RECEIVING OF AID (WHETHER WRITTEN, ORAL OR OTHERWISE) IN ORDER FOR A STUDENT TO RECEIVE UNDESERVED CREDIT ON CLASS WORK, HOMEWORK, TESTS OR ANY OTHER ASSIGNMENT THAT IS HIS OR HER OWN RESPONSIBILITY.” IN THIS CASE, BOTH STUDENTS WILL RECEIVE A “0” FOR THE FIRST OCCURRENCE AND FACE APPROPRIATE ACTION FOR FUTURE OFFENSES.

PLAGIARISM INVOLVES STEALING ANOTHER PERSON’S WORK (INCLUDING ANOTHER STUDENT) AND CLAIMING IT AS ONE’S OWN. IT OCCURS WHENEVER ONE DIRECTLY COPIES ANOTHER PERSON’S INTELLECTUAL EFFORT AND INTEGRATES IT INTO HIS/HER CLASS WORK WITHOUT GIVING PROPER CREDIT TO THE AUTHOR. IN THIS CASE, BOTH STUDENTS WILL RECEIVE A “0” FOR THE FIRST OCCURRENCE AND FACE APPROPRIATE ACTION FOR FUTURE OFFENSES.

PARAPHRASING IS DEFINED AS "A RESTATEMENT OF A TEXT OR PASSAGE GIVING THE MEANING IN ANOTHER FORM" (WEBSTER’S NEW UNIVERSAL UNABRIDGED DICTIONARY, 1996). WHEN ONE PARAPHRASES BUT INTENTIONALLY OMITTS AUTHORSHIP OF THE WORK, THIS, TOO, IS A SERIOUS VIOLATION OF ACADEMIC HONESTY.

ALL STUDENTS HAVE AN INDIVIDUAL RESPONSIBILITY TO UNDERSTAND WHAT CHEATING, PLAGIARISM, AND PARAPHRASING IS. THE STUDENT MUST ALSO BE AWARE THAT THE CONSEQUENCES FOR CHEATING AND PLAGIARISM, OR FOR PARAPHRASING WITHOUT PROPER ATTRIBUTION, ARE SEVERE. WHENEVER YOU HAVE DOUBT ABOUT WHAT CONSTITUTES CHEATING, PLAGIARISM, OR PARAPHRASING, CONTACT YOUR INSTRUCTOR. WITH THE ADVENT OF THE INTERNET, THE POTENTIAL FOR CHEATING BY SIMPLY CUTTING AND PASTING INFORMATION INTO A PAPER IS TEMPTING. BE AWARE THAT THESE DISHONEST ACTIVITIES WILL NOT BE TOLERATED AND INSTRUCTORS HAVE ACCESS TO INCREASINGLY SOPHISTICATED SEARCH ENGINES TO “TEST” THE VALIDITY OF STUDENT WORK. PLAGIARISM, IN PARTICULAR, IS EASILY TRACED.

CONSEQUENCES AND SANCTIONS

EACH STUDENT IS EXPECTED TO BE HONEST IN HIS/HER CLASS WORK OR IN THE SUBMISSION OF INFORMATION TO THE SCHOOL. EISENHOWER HIGH SCHOOL REGARDS DISHONESTY ON CLASSROOM ASSIGNMENTS AND EXAMINATIONS AND/OR THE SUBMISSION OF FALSE AND MISLEADING INFORMATION ON AN ASSIGNMENT AS A SERIOUS OFFENSE. A STUDENT WHO CHEATS, PLAGIARIZES, OR FURNISHES FALSE, MISLEADING INFORMATION MAY RECEIVE A 0 FOR THE ASSIGNMENT.

I have read and understand the attached syllabus and course guidelines for Algebra 2 at Eisenhower High School

Student Name (print)

Signature

Parent/Guardian Signature