# St. Joseph High School Syllabus: Algebra II 



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## Course Objectives:

Algebra 2 concentrates on skills that were mastered in Algebra 1 and Geometry. The topics covered in this course include a quick review of polynomial functions and linear equations. The course continues with factoring and the sum and differences of cubes; absolute value equations and inequalities by factoring and by formula; functions and quadratic equations; long division and synthetic division; complex numbers; rational exponents and radical expressions.

## Course Outline:

Unit 1: Systems of Linear Equations and Inequalities of Multiple Variables
Unit 2: Quadratic Functions and Equations with Complex Solutions
Unit 3: Polynomial Functions: Operations and Zeros
Unit 4: Rational Exponents and Radical Functions
Unit 5: Applications of Exponential and Logarithmic Functions
Unit 6: Operations of Rational Functions and Expressions
Unit 7: Trigonometric Functions and the Unit Circle

## Grading Breakdown:

1. I grade on a point system. Each assignment will be worth a predetermined amount of points and your grade will be determined by adding up the total points received and dividing by the total number of points possible.
Homework: 5-10 points each
Homework will be assigned each night. It will be posted on my website and reviewed during class. You must show all work in order to receive full credit for homework. Homework assignments cannot be made up except if you are absent. If you are absent you must show me the homework on the day that you return to school. Not all homework assignments will be graded.

Quizzes: 10-30 points each
We will have a quiz once a week sometimes more often. Quizzes will not always be announced ahead of time. Quizzes will be given either at the beginning or end of class. Quizzes given at the beginning of class will be based on the lessons from the previous class. Quizzes given at the end of class will be based on what we did in class that day.

Tests: 100 points each
There will usually be one test per chapter. I will let you know when the test is ahead of time. If you are absent the class before the test you are still expected to take the test on the assigned day. If you are absent on the day of the test you will need to take it on the day you return.

Class Work: 5-10 points
Class Participation includes arriving on time, coming prepared, respect for peers, respect for teachers and ability to stay on task.

Projects/Writing Assignments: 50-100 points
Writing assignments and projects will be assigned when appropriate to enhance the unit being taught.

## Necessary Materials:

sharpened pencils, erasers, notebook, graph paper, graphing calculator (TI- 84 recommended). You may not use your cell phone as a calculator.

## Procedures and Policies:

- I expect everyone to be on time etc. and prepared for class every day. Be respectful to everyone and everything. Maintain a healthy and safe environment and there is to be no additional electronic equipment for example cell phones, iPods Etc. that has not been registered with the school as part of the BYOD. Only class approved text messaging allowed. There is to be no form of picture taking, audiotaping, texting, recording, videotaping or any form of data transmission, at any time in my class without my express written permission. At the start of class your homework should be out on your desk. Nothing should be on your desk except your textbook, notebook and homework. Please begin working on the assignment on the board.
- Homework will be assigned every night. Homework is posted on my class website and on the board.
- All work must be shown for everything; class work, homework tests, quizzes etc. If work is not shown the problem will be marked wrong.
- All work is due on the assigned date. If you are absent on the day an assignment is due, your work is due on the day you return. If you are out on the day of a quiz or test you are expected to make the quiz/test up the day you return. If you are out for more than one day you will have that many days to make up the test or quiz. You will need to see me to schedule a time to make up the quiz/test. I do not allow you to make up a test/quiz during class time.
- I grade on a point system. Each assignment will be worth a predetermined amount of points and your grade will be determined by adding up the total points received and dividing by the total number of points possible.


## Personal Technology in the Classroom:

Cell phones, computers, tablets, or any other electronic devices, are not to be used during class time without the permission of the teacher. Students may not record any audio or any visual element of class without the teacher's permission. Doing so without permission will result in disciplinary action. Any infraction of the "Acceptable Use Policy," as explained in the student handbook, will be reported to the administration.

Signatures:
I have read and understand the information in the syllabus for this class. I accept all of the responsibilities and conditions outlined within:

Parent or Guardian: $\qquad$ Date: $\qquad$
Student: $\qquad$ Date: $\qquad$

