

Honors Algebra II Syllabus

Room405

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Academic standards are seriously undermined by cheating, plagiarism, and unauthorized copying of homework and class work. Plagiarism and unauthorized copying of homework and class work are considered cheating. Any type of cheating, or the strong suspicion of any type of cheating, results in an automatic failure for the quarter. Any type of cheating or the strong suspicion of any type of cheating, on semester exams results in an absolute F for the test and a semester failure in the course. With respect to plagiarism, the school reserves the right to use electronic services (i.e. internet services) to evaluate a student's work.

Overview: This class is designed for juniors intending to pursue degrees in college that require advanced studies in mathematics. It is designed not only to cover the content necessary to prepare students but also to help students to develop the skills necessary to succeed in advanced mathematics courses in college. The focus of the assessment in this class will be the same as in college courses i.e. the **long-term** retention of knowledge and skills. Just as in a college course where there may be only a midterm and final exam to calculate a student's grade, only test scores will count towards the grade in this course. If you do not have a strong background in the fundamentals of algebra, if you lack the maturity to assume the responsibility of daily study without the reward of a grade, if you have not developed the ability to retain skills and knowledge for the long term, or if you are unable to demonstrate your true abilities on a few tests and exams, **then this is not the course for you. You should transfer to regular Algebra II and Trigonometry immediately before your GPA suffers.**

Materials:

1. You are expected to access the relevant materials located on the Saint Charles website which include lecture notes, course information, graph paper, and test reviews.
2. Calculator for home use. I will provide TI-30IIs calculators for use in class on quizzes, tests and exams.
3. Graphing calculators are not allowed in my classroom nor can they be used on my exams. If I catch you playing calculator games in my classroom I will confiscate your calculator and keep it for an extended period of time.

Grading: Your grade will be calculated by using these weighted averages.

Quarter Grade	
Quarter Final	60%
Tests	30%
Participation	10%

Semester Grade	
1 st (3 rd) Quarter Grade	40%
2 nd (4 th) Quarter Grade	40%
Semester Exam Grade	20%

Year Grade	
1 st Semester Grade	50%
2 nd Semester Grade	50%

WAP Policy:

1. Arrangements for extended time must be made by 3:05 of the previous class day of the quiz/test/exam date.
2. WAP students, who want extended time must take the entire exam, test or quiz after school on the day I specify.
3. Students with multiple missed assignments or who have had their Participation Grade lowered will not be allowed to take extended time.

Absence Policy:

1. If you are absent only on the day of a quiz, test or exam, then you must make up the missed exam, test or quiz after school on the day that you return. **If you return to school without a doctor's note verifying your one day illness then you will be given an essay version of the test.**
2. In the case of an extended absence, you will receive a grace period to get caught up equal to the time that you were absent.
3. If you do not show up after school on the day that you return or at the end of your grace period and you have not spoken to me to make other arrangements, then you will receive a **zero** on any exam, test, quiz or homework that is due.

General Testing Policies:

1. During an exam, test or quiz you must remain silent for the entire period.
2. You may only work on the exam, test or quiz being given during that period and nothing else.

3. I will determine whether you may use a calculator and then I will provide you with the calculator.
4. Anything that I cannot read will be wrong.
5. I will keep all of your tests and quizzes. You may go over them with me anytime after school on the days when I am in my classroom.

Exams:

1. All of the exams in the course are cumulative.
2. You will find review sheets online for the semester exam and the final exam.
3. Quarter Exams will be broken into multiple parts given over several days.

Tests:

1. Chapter tests focus primarily on the types of problems found in that chapter, but the material is still cumulative.
2. Test questions are modeled after the types of problems found in your text.

Quizzes:

1. Quizzes are given on the first day of the week and cover problems from the previous week's homework.
2. The questions will be modeled after the types of problems you find in your text.
3. Quizzes cover a broader range of problems than are found on the chapter tests.
4. Quiz grades do not factor into your quarter average it is simply a way for you and me to track your progress.

Homework:

1. Homework in the course is intended to be a self-assessment. It is your responsibility to ensure that you understand and are able to complete the problems successfully.
2. Every night you are to complete at least all of the odd problems for the section(s) that we cover in class.
 - a. You are then to use the key in the back of the book to grade your homework, writing this score at the top of the page.
 - b. After grading your work you should try to discover what mistakes you have made and correct those problems.
 - c. You should make a list of any problems that you cannot correct yourself and ask those questions at the beginning of class the next day.
3. If you choose to do even problems for additional practice, you may check your work with one of the solution manuals that I will make available in my room.

Participation:

1. You will start each quarter with 100 points in your Participation Grade.
2. Anytime you engage in inappropriate behavior in my class or do not participate fully in the class then I will lower this grade.
3. Once points have been taken from this grade they cannot be regained.
4. If you use up all of these points then I will deduct points from the other parts of your grade.
5. The classroom rules provide some but not all of the instances that can result in points being taken away.
6. You are held responsible for the choices you make. How I treat you does not depend upon how I treat others in the class.

Tutoring: Students are expected to come to tutoring with all relevant materials.

1. Before school in Commons: Everyday **subject to availability**
2. After school in Commons: Tuesday & Thursday 3:05 to 5:00
3. After school in Commons: alternating Fridays 3:05 to 4:00
4. After school in Room 405: Monday, Wednesday and alternating Fridays 3:05 to 4:00

Honors Algebra II Study Suggestions:

For class:

- Print out the notes for the chapter ahead of time from the internet.
- Read through the notes and the section in the book a day before the lecture.
- Bring your print-out to class with you. As I am lecturing have your textbook open and your print-out in front of you. Write down anything I say or put up on the board that is not in either the textbook or the print-out that makes them easier to understand. This is called annotating your notes.

- When we are working on problems in class, do the problem in your notebook. Make sure you write out all of the steps and any quick notes to help you remember what to do or short cuts you can take. Check your answer with the answer given in class. If your answer is different, raise your hand to find out what you have done wrong and how to correct your mistake.

At Home:

- Using your textbook, your annotated print-outs, and your notebook full of examples make an honest attempt to complete all of your homework problems. At the very least you could indicate what rules from the notes apply or which examples you think you should be using even if you have no idea of how to complete the problem. In this way you will show me that you have made an effort to complete the problem.
- Highlight in your notebook the problems you had trouble completing so that you can ask me how to do them the next day in class, or come to see me before or after school for help.

Before Quizzes and Tests:

- Study with a reliable friend who takes good notes. He may understand problems that you don't and vice-versa.
- If you have any problems try to get to school early so that you can come to see me before school to get last minute help.

Classroom Rules:

1. You are at all times to behave as a St. Charles gentleman and follow all of the school rules in The Student Handbook.
2. You must be quietly sitting in your seat when the bell rings. If you are not then you will be marked tardy and your participation grade will be lowered by 5 points.
3. You may not sleep in class. **I will not be your alarm clock.** I will simply lower your participation grade 10 points each time you are sleeping or giving the appearance of sleeping in my class.
4. You will have only the materials necessary for my class on your desk. I will confiscate anything else and lower your participation grade by 15 points.
5. You are to participate in all activities in this class. That means listening, taking notes, solving problems, asking or answering questions, and working individually when appropriate. If you are not an active participant in this class then I will lower your participation grade by 15 points each time.
6. You are responsible for your own behavior. The punishment you receive does not depend upon the actions of anyone else in the class but you.
7. Disruptive behavior will result in your participation grade being lowered by 20 points. A pattern of disruptive behavior will merit a 2 hour detention to be served at my convenience not yours and an additional loss of 25 participation points.
8. You are not to touch anything on/in my desk, cabinets or podium without my explicit directions. You may not be behind my desk or at my computer. If you break either of these simple rules, then you will fail the class for the quarter.
9. You are not to touch any of the projection equipment in the room.
10. You are not to write on the boards unless given permission by me.
11. You are not to touch the windows, blinds or fans.

Semester Exam Review

1. p132/31-32
2. p132/33-34
3. p135/5-8
4. p142
5. p151/13-16
6. p151/13-16
7. p170/1b-18b
8. p170/29-30
9. p135/Cramer's Rule with 2 variables
10. p203/1-18
11. p203/23-26
12. p216/1-23
13. p219/1-18
14. p228/1-20
15. p230/1-23
16. p236/1-24
17. p250/1-9
18. p253/13-16
19. p260/25-26
20. p271/1-32
21. p271/1-32
22. p271/1-32
23. p275/1-34
24. p279/25-33
25. p282/1-18
26. p284/1-7
27. p284/8-12
28. p296/19-24
29. p298/1-8
30. p298/9-20
31. p298/9-20
32. p298/9-20
33. p298/21-26
34. p303/18-20
35. p303/21-26
36. p309/7-18
37. p314/13-20
38. p314/21-26
39. p317/11-18
40. p323/1-6
41. p328
42. p346
43. graphing a parabola
44. solving a polynomial equation

Final Exam Review

1. p 151/13-16
2. p170/1-18b
3. p219/1-18
4. p250/1-9
5. p271/29-32
6. p275/1-28
7. p296/19-24
8. p303/18-20
9. p303/21-26
10. p314/21-26
11. p317/11-18
12. p323/1-6
13. p328/1-6
14. Solving polynomials by using synthetic division, rational root theorem, Descartes rule, upper and lower bounds
15. p403/9-16
16. Graphing from parabolic form
17. p411/13-16
18. p416/13-15
19. p431/1-15
20. p444/39-44
21. p446/9-16
22. p446/17-20
23. p450/7-12 find inverse only
24. p456/29-34
25. p466/1-8
26. p471/9-16
27. p471/21-22
28. p500/13-18
29. p507/9-16
30. p517/1-8
31. graph a trig function with values of a, b, c, and d
32. calculate angle sums, differences, halves, and doubles 15-3 to 15-5
33. p667/42-47
34. p669/1-34
35. p683/1-12
36. p683/15-19
37. p690/9-12
38. p693/1-12
39. calculating power and errors for a hypothesis test