

Advanced Algebra 2 Trig Syllabus

2011-2012

This course extends the concepts learned in Algebra 1 and provides students with their first exposure to advanced math topics. Students investigate linear, quadratic, absolute value, polynomial, radical, logarithmic, and trigonometric functions and use them to model real life situations. Students will learn to approach problems numerically, graphically, algebraically, and verbally.

The nature of this course differs from students' previous math courses in that students will be required to engage in more critical thinking, analysis, and explanation of their work. As such, understanding and showing the process will be more significant than providing an answer alone. Students are expected to be fully engaged in classroom discussions and activities in order to maximize their ability to comprehend, retain, and apply course content.

1st Semester

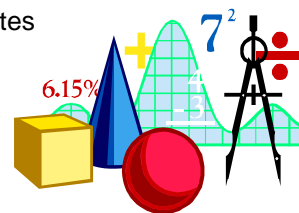
Unit 1: Foundations of Algebra
Unit 2: Linear Equations and Functions
Unit 3: Linear Systems and Matrices
Unit 4: Quadratic Functions and Factoring
Unit 5: Polynomial Functions
Unit 6: Rational Exponents and Radical Functions

2nd Semester

Unit 7: Exponential Functions and Logarithms
Unit 8: The Unit Circle, Trigonometric Functions & Graphs
Unit 9: Trigonometric Identities and Equations
Unit 10: Trigonometric Applications
Unit 11: Probability
Unit 12: Quadratic Relations (as time allows)

Required Adv. Algebra 2 Trig Supplies

- 3 – ring **math binder** – 1½ -2” for homework, handouts, class notes
- pencils with erasers – all work is to be done in pencil ☺
- colored pen/pencil for correcting
- highlighter
- TI – 84 Plus graphing calculator (with working AAA batteries)
- loose-leaf paper or spiral notebook for notes and homework
- Text: Algebra 2 © 2007 by McDougal Littell



Attendance: “Come to school!”

You need to be present both physically and mentally to be successful. You will be given one day for every day absent to complete an assignment. It is your responsibility to get the materials needed to complete the assignment and to see me during ISHP with any questions. Extended absences in the event of extenuating circumstances will be dealt with on an individual basis. Please plan trips during scheduled school breaks. If the upcoming absence is due to religious observances, we will provide accommodation to minimize conflict.

Tardy policy: “You snooze; you lose - be on time!”

Two “free” tardies will be allowed each semester. A third tardy will result in a phone call or e-mail to your parents. A fourth tardy will result in a disciplinary referral. Remember, if you earn a disciplinary referral, you lose your exam exemption privilege!

Homework: “Just do it!”

Homework will be assigned daily, and students should be prepared to discuss and submit their work the next day in class. Not every assignment is graded and not every problem is graded. Instead, we will select specific problems to grade to provide you with feedback about your progress. You must show all your work to earn full credit.

Late Homework:

Late assignments will be downgraded as outlined below. Homework that is more than one day late must be completed during ISHP.

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|---|------------------------------------|
| ➤ Turned in one day late | 20% off penalty |
| ➤ Turned in two or more days late (until end of unit) | 40% off penalty |
| ➤ Turned in after end of unit | No credit |
| ➤ Absence | Additional day for each day missed |

Reviewing for Assessments

To transition you to higher level mathematical thinking and study skills, a goal of this course is to develop your independent review strategies. Throughout the school year, mathematical study skills will be taught and independent review strategies will be encouraged. Review material may be provided in selected units of study.

Quizzes and Tests:

You should expect about 3 quizzes and 3 tests per quarter. Quizzes and tests are announced in advance and usually have both a non-calculator portion and a calculator portion. Some tests are given over two days. If you are absent on the day of a test, you will take the test during the class period or at ISHP on the day you return. If you fail a test, you may redo the assessment during ISHP for a maximum grade of 60%. The redo test must be completed within one week of receiving the initial graded assessment.

Projects:

Occasionally, projects will be assigned. Grading rubrics will be provided in advance. You will also get to see samples of students' projects from previous years. Late projects will be penalized as follows:

- 1 day after due date 10% late penalty
- 2 days after due date 20% late penalty
- 3 days after due date 30% late penalty
- 4 or more days after due date 40% late penalty
- Deadline is end of quarter A zero will be assigned if not turned in

Grading:

Our grading system is point-based. Your grade for the semester is based on a running total of the points you earn divided by the number of points possible. Your quarter grade is merely a checkpoint of your progress halfway through the semester. Grades will be updated and made available on Family Access.

93 – 100%	A	73 – 76.99%	C
90 – 92.99%	A-	70 – 72.99%	C-
87 – 89.99%	B+	67 – 69.99%	D+
83 – 86.99%	B	63 – 66.99%	D
80 – 82.99%	B-	60 – 62.99%	D-
77 – 79.99%	C+	0 – 59.99%	F

Semester Grades/Exams:

The cumulative total of both quarters accounts for 75% of your semester grade. The final exam accounts for 25% of your semester grade. Students who qualify may exempt an exam according to school guidelines.

Academic Integrity:

Cooperative learning and working with a partner are encouraged, but ultimately the work you turn in must be your own. Academic dishonesty and cheating will not be tolerated. Students caught cheating will be dealt with as indicated in the school academic dishonesty policy. A conference with the student(s) involved will be held to determine appropriate consequences. The student must redo the assessment with a maximum grade of 60%.

ISHP (Individual Student Help Period):

It is your responsibility to seek extra help when you do not understand a particular concept or assignment. We encourage you to get help as soon as you need it; do not wait until a small question becomes a big problem! ISHP is also an excellent opportunity to get additional support before quizzes and tests. We are available every day during ISHP from 11:25 – 11:51.

Contact Information: Christine.Kiefer@wfbschools.com
Donna.Woodnorth@wfbschools.com

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(414) 963-3928, x3345

Thank you for taking the time to read through this syllabus! ☺ I have high expectations for every one of you, and I'm looking forward to an exciting and productive year!

Mrs. Christine Kiefer and Mrs. Donna Woodnorth