

Algebra II
Jefferson City High School
Heather Tabb, Instructor

I. Course Description:

Algebra II emphasizes functions including linear, exponential, logarithmic, quadratic, rational, square root, and cube root. Included are such topics as positive and negative exponents, irrational numbers, quadratic relations, factoring, matrices, sequences, series, probability, and complex numbers.

Prerequisite: "C" or higher in Geometry or teacher approval.

II. Course Curricular Objectives:

- The student will simplify expressions, solve equations and inequalities, and use linear equations to model events and make predictions.
- The student will solve systems of equations by using these different methods: graphing calculator technology, linear combinations, substitution, matrices, and graphing. The student will solve systems of linear inequalities by graphing and will perform basic matrix operations.
- The student will simplify radical expressions, solve radical equations, and solve equations with complex solutions.
- The student will use different techniques to factor polynomials and will solve quadratic equations/inequalities.
- The student will perform function operations and composition, use inverse functions, and graph square root and cube root functions.
- The student will develop concepts relating to exponential and logarithmic functions.
- The student will graph rational functions, simplify rational expressions, and solve rational equations.
- The student will analyze arithmetic and geometric sequences and series.
- The student will determine the number of combinations or permutations possible and the probability of an event.

III. Course Materials:

Textbook: Larson, Ron, Laurie Boswell, Timothy D. Kanold, and Lee Stiff. *Algebra 2*. Evanston, Illinois: McDougal Littell

Students should provide and bring with them daily:

- Binder to organize all class notes
- Student Planner
- Student ID to be worn around the neck
- Textbook
- Paper
- Graph Paper
- Pencil with eraser
- Pen for grading
- **Graphing calculator (Preferred: TI-83, TI-83 Plus, TI-84 Plus Silver Edition)**

IV. Course Policies:

- All district and/or school policies are enforced (tardies/absences/behavior...).
- Absences: Daily attendance is highly recommended. If you have an excused absence, you are expected to get all materials, notes, and assignments you may have missed. Be sure to consult the assignment sheet given at the beginning of every unit, my webpage and distributed classroom notes in the event of an absence. You will have one day for every day of your excused absence to submit the make-up assignments. Tests should be scheduled to be made during the next Tuesday/Thursday morning academic lab in room 159 after your absence.
- Homework: Homework completion is essential to success in Algebra II. Almost all homework assignments must be completed in pencil and will be recorded based on a 100-point scale. One late paper per 9-weeks is allowed for half credit. Any other late assignments will not earn class credit. If you have an extenuating circumstance that prevents you from completing your assignments, please

visit with Mrs. Tabb personally before or after school. NO papers will be accepted after the cumulative unit assessment has been taken.

- **Classroom Passes:** Each student will be allowed two (2) hallway passes per nine-week term. It is vital to success in Algebra II that each student remains in the classroom to obtain all instruction and guided practice time. Students must have their student planner in order to receive a pass to leave the classroom.
- **Assessments:** Students must prepare properly for unit cumulative exams by reviewing past homework assignments and the provided review sheets. Assessments compose 70% of the learner's overall grade. *Students are provided the opportunity to retake **one cumulative unit assessment per term** in Algebra II.*
- **Assessment Retake Policy:**
 - Students have the opportunity to retake **ONE** test each term of Algebra II outside of regular class time as outlined in the following bullets:
 - Students earning an 80% or better on the original exam have reached the "mastery level" and will not have the option to retake that exam
 - Students earning below an 80% on the original test
 - * will have the option to retake the test (if their one retake opportunity has not already been used)
 - * will retake the entire test
 - * will earn the higher score of the two tests, up to an 80%
 - * must attend at least one study session with an Algebra II teacher outside of class time to complete a reflection sheet and discuss missed problems on the original test (this study session cannot be on the same day as the retake)
 - * must complete their retake within 2 weeks of the date the tests are returned to the class

V. Grading Policy/Assessment:

Nine-week Grade:

- 10% Assignments
- 10% Quizzes
- 70% Unit tests
- 10% Cumulative Exam (Mid-term, EOC)

Scale:	93-100 A	80-82 B-	67-69 D+
	90-92 A-	77-79 C+	63-66 D
	87-89 B+	73-76 C	60-62 D-
	83-86 B	70-72 C-	0-59 F

VI. Course Procedures:

- An outline, which includes daily objectives and assignments, will be given at the beginning of each unit. The teacher reserves the right to alter an assignment from the outline.
- All homework papers will be graded and turned in daily. If a student is absent or has late work to submit, he/she must grade his/her assignment outside of class time.

VII. Personal Statement:

This is my ninth year teaching and my third full year at Jefferson City High School. Mathematics education is not a spectator sport. You must accept an active roll to be successful. I have high expectations for all of my students. Homework is required and may be challenging. I will be available for help both before and after school. Tutoring will be available during designated late-start times and students are encouraged to take advantage of these tutoring times. It is important to stay caught up on all math assignments. If you feel you are falling behind, you should get help soon. I will work with you to help you succeed in Algebra II.

VIII. Additional Information:

E-mail: heather.tabb@jcpschools.us
Webpage: www.jcps.k12.mo.us/htabb
Math Office: 659-3089

TIME	SCHEDULE
7:30 – Beginning of 1 st block	Before School Help (M/W/F – Rm 153) Academic Labs (T/Th)
1 st Block	Intro to Geometry/Lab (Rm 153)
2 nd Block	Intro to Geometry/Lab (Rm 153)
3 rd Block	Conference
Advisory (T/Th)	Advisory (Rm 155)
4 th Block	Algebra II (Rm 154)
3:00 – 3:45 pm	After School Help

A grade report will be provided to you on a regular basis and/or on request. It will be given to the student to take home. In addition, the district provides a web-based Student Information System called Infinite Campus. Information available to parents/legal guardians via the Portal includes:

- Certain demographic information
- A family calendar that displays attendance and assignments due for all students in the household (Note: assignments display for grade 6-12 students only)
- An individual student calendar for each student in the household
- A schedule of classes for each student in the household
- Assignments and grades for each student (grades 6-12)
- Attendance by term and period for the year
- Health immunization record
- Reports (PDF format)

To login into this option, go to JCPS website (<http://www.jcps.k12.mo.us>), click on the Infinite Campus tab, and then click on the Campus Portal **LOGIN** link.

----- return with parent/guardian signature-----

I have read the above syllabus for Mrs. Tabb's Algebra II class. I understand that Mrs. Tabb's expectations are high and that she will work hard to ensure that my child has every opportunity to be successful through appropriate lesson structure, activities, homework practice, etc. I understand that in Algebra II, students are allowed one test retake per term as outlined in the syllabus. Furthermore, I understand that my son/daughter must play an active role in his/her education, and will be expected to...

1. bring the course materials (book, paper, pencil, pen, calculator*) to class every day,
2. use class-time appropriately (take notes, participate in activities, work on homework, etc.),
3. ask questions and/or come in for extra help,
4. respect the other students and their learning opportunities in the classroom.

In the space below, please provide any information you would like to share about your students. I'd like to know more about his/her likes/dislikes, hobbies, mathematics background, etc. I will use this information to better help your student throughout this semester.

My student:_____

Parent/Guardian:_____

Parent/Guardian contact information (please indicate preferred method of contact with "*")

Phone number (indicate home/cell/work):

Best time to call:

Parent/guardian email address: