Algebra II
Jefferson City High School
Heather Tabb, Instructor

I. What skills do I need to bring to Algebra II to be successful in the class?

A student entering Algebra II will be expected to have the following skills:

- Add, subtract, multiply, and divide real numbers without a calculator
- Solve multi-step linear equations
- Graph linear functions
- Factor expressions – including: GCF, difference of squares, and all trinomials
- Solve and graph quadratic functions (Quadratics will be covered in Algebra II for the last time during the 2013-2014 school year.)

Furthermore, the student seeking success in Algebra II will need to have:

- A commitment to completing daily assignments
- A willingness to seek extra help as needed
- A desire and commitment to be prepared for quizzes and tests

II. Course Description:

Algebra II emphasizes functions including 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.

III. Course Curricular Objectives:

- 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 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.

IV. 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)**

V. Course Policies:

- All district and/or school policies are enforced (tardies/absences/behavior…).

- Absences: Daily attendance is a necessity. 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.

    If you are absent and need to access class notes, you can locate the class notes on my website: www.jcschools.us/htabb

- 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. 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 formative and summative exams by reviewing past homework assignments and any provided review sheets. Summative assessments (unit tests) compose 70% of the learner's overall grade while formative assessments (quizzes) compose 10% of the course grade. *Students are provided the opportunity to retake **one 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 a similar, but not identical, 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

VI. 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

VII. 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.

VIII. Personal Statement:

This is my tenth year teaching and my fourth 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.

IX. Additional Information:

E-mail: heather.tabb@jcschools.us
Webpage: www.jcschools.us/htabb
Math Office: 659-3089

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

* Please check with Mrs. Tabb before planning to stay after school to verify she does no have a meeting or prior commitment.

* Teachers are not individually available to assist students on Tuesday and Thursday mornings, but the academic lab is available if a student is seeking extra help. Mrs. Tabb's Tuesday and Thursday morning schedule is posted on her website.

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

I have read the 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. 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.

I also understand in Algebra II, students are allowed one test retake per term as outlined in the syllabus.

Student Name:_____

Student Signature: _____

Parent/Guardian Signature:_____

Parent/Guardian contact information

Phone number(s):

Please provide an email address if you would like to receive periodic updates about Algebra II:

Please use the space below to provide a little information about your student (likes, dislikes, interests, etc):