



New Smyrna Beach High School

Course Syllabus

Course Title: Algebra 2

Instructor's Information:

Name— Mary Frances Mosher

Contact Information— mmosher@volusia.k12.fl.us

Resources and materials needed for the class:

- 1) **Binder with a section labeled "Algebra 2" and plenty of loose leaf paper.**
- 2) **Pocket Folder** labeled "Algebra 2" - to hold work in progress until it is completed and ready to turn in.
- 3) **Pencils with Erasers.** Math should be done in pencil so errors may be corrected as needed.
- 4) **Calculator** – at times calculators will be allowed in class. **Make sure your calculator has your name on it.**

Recommended: TI-30xa or Casio Fx-260 solar

*Math Tools, Materials, and Books used in class/home are expected to be returned in excellent condition. If you mistreat borrowed items, you are responsible for replacing/paying for the damaged item. An obligation form will be issued after 1 week for damaged tools and materials. Textbooks will be handled by administration when it is time to return books.

****CELL PHONES ARE NOT BE USED AS CALCULATORS – Phones are off and out of sight in class at all times.**

Course Description: Algebra 2 is considered a higher level math course and is a prerequisite for many four year universities. Various types of mathematical models will be covered, including but not limited to, linear, quadratic, cubic, radical, rational, exponential, and logarithmic. Students will learn to translate real life situations into mathematical models, and then interpret the results.

Course Objectives: Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas for this course, organized into five units, are as follows:

Unit 1- Polynomial, Rational, and Radical Relationships;

Unit 2- Trigonometric Functions;

Unit 3- Modeling with Functions;

Unit 4- Inferences and Conclusions from Data;

Unit 5- Applications of Probability;

Academic Dishonesty:

The Volusia County School Board's Code of Student Conduct has defined Academic Dishonesty as a level II offense. Academic Dishonesty is defined as "Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the school district. Such behavior may result in reduction in grades, classroom discipline as determined by the instructor, suspension or expulsion from school and/or school activities including student organization".

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The focus of instruction is to get students to achieve to their full learning potential.

Instructional Methods: We will be using cooperative learning, common core methods, lecture, note taking, teacher modeling, technology, and discovery methods of learning.

Homework/ Classwork Policy:

Students are expected to complete all assigned coursework to the best of their ability and turn in coursework on time. Students who are submitting late work (due to an excused absence) have one day, or one day for each day absent (whichever is greater), to submit work unless the teacher determines there are extenuating circumstances which necessitate an extension. It will be a **best practice for students to make up tests within a school week** of the original assigned date unless the teacher determines there are extenuating circumstances which necessitate an extension.

Intervention and Remediation:

When students demonstrate a lack of proficiency on standards they must receive intervention(s), which may lead to assessment retakes or alternative assignments.

- When students demonstrate a lack of mastery on standards they may receive intervention(s) **that require them to attend Office Hours** on **MONDAY, WEDNESDAY, THURSDAY, and FRIDAY** of each week. Office hours take place during the first thirty minutes of the lunch period on the **FOUR** assigned days listed above.
- **Each 9 week grading period, students shall have the opportunity to retake one summative assessment. The retake will require that the student has completed ALL classwork, homework, formative assignments/quizzes, and summative tests. The student will also attend office hours (attendance is recorded) during the 9 week grading period.** Students are encouraged to attend Office Hours voluntarily when needed. If a student is assigned Office Hours by the teacher and the student misses 3 or more of these remediation sessions, then the student forfeits the opportunity to retake the summative. *(Students with individual academic plans will follow his/her plan by self-advocating interventions to meet or exceed goals.)*
- **Extra Credit is not needed if a student follows the above plan. If extra credit is given, it will be given to all students in the class as a fair opportunity to all students taking this course.**

Class Participation:

- All students are expected to take an active part in the learning environment of the classroom. This means coming to class on time and being prepared to learn each school day. Students with unexcused absence(s) must come to Office Hours to get missed work and set a timeline for completion of coursework.
- The learning environment will be respectful where students have a safe place to learn without interruptions &/or distractions at all times. Students using personal electronic devices (Smartphones, I-Pods, "Hidden" Earbuds) in class are knowingly distracting him or herself as well as the students around them. A warning will be given once, reminding the student of the classroom policy. If repeated, a referral will be sent with the student to Student Services. Administration will meet with the student and give appropriate consequences.
- Appropriate Participation: Positive Consequences – group work, work buddies, good grades, completion of assignments.

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- Inappropriate Participation: Negative Consequences – 1. Student/teacher conference, 2. Parent notified, 3. Work in another classroom, 4. Referral.

Students and parents need timely and accurate feedback in order to effectively monitor learning progress.

Grading Practices:

- Best practice: **Teacher:** Gradebook will be updated weekly (except in the case of extensive assignments or unusual circumstances). **Parent & Student:** Check grades and review progress weekly. Electronic grades are available 24/7.
- If there is a grading issue, please contact teacher via email or student may see the teacher between classes or during Office Hours. If time permits during the regular class period, the teacher will gladly meet with the student.
- Waiting until the end of the 9 weeks, end of the semester, or end of the course is NOT the appropriate time to solve grading issues especially “missing work” or “missing tests”. Electronic Gradebook is a tool to monitor progress and needs to be checked weekly. If an “I” is given, the student can only improve the failing grade to either a D or C depending on the student’s attendance and amount of missing work. This work will be done during Office Hours and outside of class with only 2 weeks to complete. The regular coursework that is due during this time period should not suffer during this period. Making up an “I” is above and beyond the daily work.

Letter grades are a reflection of the student’s level of academic achievement on the courses’ performance standards as defined in the school curriculum guides/maps. The following grade scale shall be used to determine a letter grade and the following quality point system shall be used to determine grade point average and honor roll:

<u>Grade</u>	<u>Grade Range</u>	<u>Quality Points</u>	<u>Description</u>
A	90-100	4.0	Outstanding Progress (Mastery)
B	80-89	3.0	Above Average Progress
C	70-79	2.0	Average Progress (Proficiency)
D	60-69	1.0	Lowest Acceptable Progress
F	0-59	0.0	Failure
I		0.0	In progress toward grade level proficiency in skills and concepts

M = Missing assignment that needs to be completed due to an excused absence. (Zero with time to make up).

Z = Zero in grade book. No attempt was made to complete the assignment in a timely manner.

This grade will also be given if a student is found cheating (referral – level 2 offense). Using an electronic device to do the work for the student is academic dishonesty and goes against VCS policy. Students are to keep all personal electronic devices OFF and out of sight during all class periods. Copying another student’s work for this class or any other class is academic dishonesty and goes against VCS policy. A student will and should always do his or her own best work at all times.

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Please complete and return this page within the next five days.

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Signature Page for Algebra 2 Course Syllabus

Teacher: Mrs. Mosher

Please share this information with your parents (guardians) and return completed page by Monday.

Student:

I have read and I understand all aspects of the course syllabus for my Algebra 2 class. I have shared this information with my parents (guardians). I agree to abide by these requirements.

Print Name: _____ Alpha Code: _____

Student Signature: _____ Class Period _____

Parents (Guardians):

In this course we like to show students the usefulness of math and how it applies to our everyday lives. Algebra 2 is not just found in a textbook. Math is used for many daily things. As a result, we will be using a wide range of non-traditional instructional materials of high academic merit including appropriate and **instructionally related** movie clips rated G or PG, Safari Montage and Internet access. If you have concerns about materials being appropriate for your child, please notify me about your concerns. Your signature below will serve as your consent for your child to use all of the instructional materials described above.

I have read and I understand all aspects of the course syllabus for Algebra 2 class. I agree to my child following these guidelines and procedures.

Parent (Guardian) Signature: _____ Date: _____

Contact Information Please:

Full Name(s) of Parent(s) or Guardian(s): _____

Best email address to use as a contact: _____

Best phone number to use as a contact: _____

Keep Syllabus. Return this page filled out completely. Parents/Guardians/Students can view this syllabus anytime @www.nsbhigh.com. Click 'TEACHERS' and scroll until you find Mosher.

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