



**Chapin High School  
Mathematics Department  
Algebra 2  
2024-2025 Course Syllabus**

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**Teacher (Room Number): Irene Yong (B 251)**

**Department Head: Randy Johnson**

**Asst. Principal for Instruction: Melissa Magee**

**Website: <https://sites.google.com/lexrich5.org/irene-yongs-website/home>**

**Teacher Email: [iyong@lexrich5.org](mailto:iyong@lexrich5.org)**

**Planning Periods: 1A & 6B**

**Enrichment: first lunch**

**Phone: 803.575.5497**

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### **I. Course Catalog Description**

Course content includes a deeper study of the following functions: trigonometric, polynomial, exponential, logarithmic, rational, radical, and other primary functions. Sequences and series, topics in conics, complex numbers, polar coordinates and parametric equations are included in the course content.]This course uses a graphing calculator and other graphing utilities. This course meets the state requirements for honors courses and is based on SC College and Career Ready Standards for Mathematics for Precalculus. This course prepares students for AP Calculus. Grade 10 students must meet prerequisites and have approval of the Math Department Chair

### **II. Course Standards or Objectives**

We will be using the state adopted standards which can be found by clicking [here](#). The standards for this course begin on page 55. [School District Five High School Success Criteria](#).

### **III. Instructional Goals**

The course involves a rigorous study of Algebra 2, extending the content of Algebra 1 and Geometry through the study of linear and quadratic equations and inequalities, polynomials, complex numbers, relations and functions including exponential and logarithmic functions, the study of graphs in 2 dimensions, and analytic geometry. Technology will be used as a tool to facilitate learning mathematics.

### **IV. Course Sequence/Pacing Overview**

- Unit 0: Review of Linear Equations, Inequalities, Functions and Systems
- Unit 1: Absolute Value
- Unit 2: Graphing Quadratics
- Unit 3: Solving Quadratics (complex numbers)
- Unit 4: Polynomial Functions
- Unit 5: Rational Exponents and Radicals
- Unit 6: Exponential Functions
- Unit 7: Simple Rational Functions

### **V. Textbooks and Additional Resources**

*enVision Algebra 2* - Textbook is available online and can be accessed via school-issued Chromebook using ClassLink.

## **VI. Course Grading Policies and Assessments**

Student progress in this course will be monitored through major tests, quizzes, class discussions, a project, and homework proficiency. Students will be evaluated on a nine-week basis. Interim reports and nine week reports will be sent home each period. Points will be awarded for each assignment.

Major tests: 100 points

Quizzes: vary between 5 - 50 points

Homework: 4 points (the last day to turn in HW for the unit is on the day of the Unit Test)

In order to receive full credit, each problem must be written down and all work displayed on the student's paper. All tests, quizzes, and homework must be completed in pencil. At the end of each semester, students will take a cumulative semester exam. The MidTerm and Exam count for 20% of the semester grade. The final grade is the average of both semester grades.

## **VII. Grading Procedures**

Grades for minor assignments (ie. homework and classwork) will be posted within 5 school days, and major or extended assignment (ie. quiz and test) grades will be posted within 10 school days.

Major Grades - Assignments that students are given 2 or more classes ahead of time to prepare or complete. The following will be the major grades in all content areas:

- Test (must be done during one class period): usually 100 points
- Quiz (must be done during the given time - between 5 minutes to a whole class period): varies between 5 - 10 points
- Project (50 points)

Minor Grades - Assignments that students are given 1 class (48 hours) to complete or on-the-spot work. The following will be minor assignments in all content areas:

- Homework (4 points) - the last day to turn in HW in the unit will be on the test day of that unit
- Classwork/Pop Quiz (varies between 4 - 10 points)

## **Content Recovery:**

A student who has been fully engaged (per teacher's discretion) may qualify for Content Recovery if the student has a D or an F average in the course for the nine weeks. **Fully engaged** means that the student has completed all homework assignments of the material covered on the test, has participated in class, and attended enrichment opportunities to seek help. Content Recovery: students may retake one test per quarter; the grade from the retake will be averaged with the original test, and the maximum grade for the average will be 70%.

## **VIII. Exam Exemptions**

Seniors can exempt the final exam if they meet the following conditions:

1. Grade of 80 or higher in the course.
2. Has not had an In-School Suspension or an Out-of-School Suspension.

## **IX. Honor Code**

In order to foster an environment of mutual trust and respect, we believe, within the community of School District Five of Lexington and Richland Counties, each individual should accept the personal responsibility to exhibit and promote academic and social integrity. *Students will not cheat or plagiarize.* Students who are caught cheating will receive a zero for that assignment.

School District Five of Lexington and Richland Counties recognizes the potential of Artificial Intelligence (AI) to enhance teaching and learning. We acknowledge the ever-changing nature of AI and understand the need to adapt to new developments. Our commitment is to ensure that any use of AI upholds a humanistic view of teaching as a priority, while implementing technologies in a manner that is equitable, ethical, and beneficial to all of our students and staff. Here is the [District AI Position Statement](#). The district also created [Artificial Intelligence \(AI\) Guidelines for Faculty and Students](#), as well as [Artificial Intelligence \(AI\) Guidelines for Parents and Guardians](#).

## **X. Suggestions for Success in Course**

### **Study Skills and Strategies:**

- Pay attention during class, not only copying down notes, but copying with understanding.
- Try the example problems during class; do not wait to copy when they have been solved.
- Ask your questions right away during class.
- Pay attention when your classmate is asking a question; you may have the same question, too.
- Get some help at the first sign of 'I am lost'.

### **Materials Needed:**

A three-ring binder, papers, pencils (please no pens), graph papers, and a graphing calculator (TI-Nspire CAS is highly recommended for this course, along with Calculus Honors, AP Stats, and AB or BC Calculus).

## **XI. Classroom Management Plan**

### Classroom Rules:

1. Respect yourself & others
2. Come to class prepared
3. Be on time
4. No cell phone ([Board Policy](#))
5. Follow all school rules

### Consequences:

- 1<sup>st</sup> offense: warning
- 2<sup>nd</sup> offense: lunch detention
- 3<sup>rd</sup> offense: email/call home and lunch detention
- 4<sup>th</sup> offense: referral to the office

All elements of the [CHS Student Handbook](#) and the School District Five discipline policies will be enforced. Students are expected to use school and personal technology responsibly and follow the rules included in the [25-26 District 5 District Issued Device Guide](#) and the [Acceptable Use Agreement](#).

This includes:

1. Having a charged mobile device (district-issued Chromebook or comparable personal device) at school EVERY DAY.
2. Not using devices assigned to other students.
3. They should be responsible for their own devices and should keep them secured at school and off campus.
4. Follow all teacher directions regarding appropriate times for use of the device.

## **XII. Uniform Grading Scale**

See [State Department of Education website](#) for complete details. All report cards and transcripts will

use numerical grades.

A=90-100; B=80-89; C=70-79; D=60-69;

F=Below 60

| 10 Point Grading Scale                           |              |                        |                  |                             |
|--------------------------------------------------|--------------|------------------------|------------------|-----------------------------|
| South Carolina Uniform Grading Scale Conversions |              |                        |                  |                             |
| Numerical Average                                | Letter Grade | College Prep Weighting | Honors Weighting | AP/IB/Dual Credit Weighting |
| 100                                              | A            | 5.000                  | 5.500            | 6.000                       |
| 99                                               | A            | 4.900                  | 5.400            | 5.900                       |
| 98                                               | A            | 4.800                  | 5.300            | 5.800                       |
| 97                                               | A            | 4.700                  | 5.200            | 5.700                       |
| 96                                               | A            | 4.600                  | 5.100            | 5.600                       |
| 95                                               | A            | 4.500                  | 5.000            | 5.500                       |
| 94                                               | A            | 4.400                  | 4.900            | 5.400                       |
| 93                                               | A            | 4.300                  | 4.800            | 5.300                       |
| 92                                               | A            | 4.200                  | 4.700            | 5.200                       |
| 91                                               | A            | 4.100                  | 4.600            | 5.100                       |
| 90                                               | A            | 4.000                  | 4.500            | 5.000                       |
| 89                                               | B            | 3.900                  | 4.400            | 4.900                       |
| 88                                               | B            | 3.800                  | 4.300            | 4.800                       |
| 87                                               | B            | 3.700                  | 4.200            | 4.700                       |
| 86                                               | B            | 3.600                  | 4.100            | 4.600                       |
| 85                                               | B            | 3.500                  | 4.000            | 4.500                       |
| 84                                               | B            | 3.400                  | 3.900            | 4.400                       |
| 83                                               | B            | 3.300                  | 3.800            | 4.300                       |
| 82                                               | B            | 3.200                  | 3.700            | 4.200                       |
| 81                                               | B            | 3.100                  | 3.600            | 4.100                       |
| 80                                               | B            | 3.000                  | 3.500            | 4.000                       |
| 79                                               | C            | 2.900                  | 3.400            | 3.900                       |
| 78                                               | C            | 2.800                  | 3.300            | 3.800                       |
| 77                                               | C            | 2.700                  | 3.200            | 3.700                       |
| 76                                               | C            | 2.600                  | 3.100            | 3.600                       |
| 75                                               | C            | 2.500                  | 3.000            | 3.500                       |
| 74                                               | C            | 2.400                  | 2.900            | 3.400                       |
| 73                                               | C            | 2.300                  | 2.800            | 3.300                       |
| 72                                               | C            | 2.200                  | 2.700            | 3.200                       |
| 71                                               | C            | 2.100                  | 2.600            | 3.100                       |
| 70                                               | C            | 2.000                  | 2.500            | 3.000                       |
| 69                                               | D            | 1.900                  | 2.400            | 2.900                       |
| 68                                               | D            | 1.800                  | 2.300            | 2.800                       |
| 67                                               | D            | 1.700                  | 2.200            | 2.700                       |
| 66                                               | D            | 1.600                  | 2.100            | 2.600                       |
| 65                                               | D            | 1.500                  | 2.000            | 2.500                       |
| 64                                               | D            | 1.400                  | 1.900            | 2.400                       |
| 63                                               | D            | 1.300                  | 1.800            | 2.300                       |
| 62                                               | D            | 1.200                  | 1.700            | 2.200                       |
| 61                                               | D            | 1.100                  | 1.600            | 2.100                       |
| 60                                               | D            | 1.000                  | 1.500            | 2.000                       |
| 59                                               | F            | 0.900                  | 1.400            | 1.900                       |
| 58                                               | F            | 0.800                  | 1.300            | 1.800                       |
| 57                                               | F            | 0.700                  | 1.200            | 1.700                       |
| 56                                               | F            | 0.600                  | 1.100            | 1.600                       |
| 55                                               | F            | 0.500                  | 1.000            | 1.500                       |
| 54                                               | F            | 0.400                  | 0.900            | 1.400                       |
| 53                                               | F            | 0.300                  | 0.800            | 1.300                       |
| 52                                               | F            | 0.200                  | 0.700            | 1.200                       |
| 51                                               | F            | 0.100                  | 0.600            | 1.100                       |

Each final grade (numerical) will have different weighting for the basis of computing GPR. The chart included gives the weighting for each numerical value.

Extra weight is given to honors (.5) and AP (1.0) courses. This policy also establishes that courses may not be dropped after the fifth (5th) day in a semester class or after the tenth (10th) day in a yearly class without penalty. Students may only retake a class at the same difficulty under the following conditions: Only a course in which a D or F was earned may be retaken.

The course must be retaken at the first opportunity within the next year. The student's record will reflect all courses taken and the grade earned, except for courses taken prior to the ninth grade.

### **Student/Teacher and Parent/Teacher Communication**

- XIII.**
- All students should use district-issued email accounts for communicating with teachers (studentnumber@stu.lexrich5.org).
  - All students should check their school email, Google Classroom and Google Calendar every school day.
  - Parents and students should check the teachers' websites for classroom calendars/assignment sheets.
  - Parents may contact teachers via email in order to receive invitations to Google Classroom parent/guardian signup. Parents will receive an email from Google and then need to register to receive emails from Google Classroom. Once a parent is registered to receive emails from one class, he/she will receive emails from all Google Classroom groups. It is not necessary to contact all teachers to register.
  - Emails and phone calls to teachers will be returned within two business days.
  - Parents and students who would like access to the parent/student PowerSchool portals should visit the CHS attendance office for login information.

#### **XIV. School Attendance and Make-up Work Policy**

Students are encouraged to attend school regularly. If, however, a student must be absent from school for any reason, it is his/her responsibility to make-up all missed work.

Make up policy for this class:

**Homework/Classwork:** no late work will be accepted

**Quiz:** can be made up during NEST and/or lunch (students can come for the whole hour to take the quiz while eating lunch) or during study hall block.

**Test:** students need to make arrangements with the teacher before coming to take the test. Possible times to make up the test: :

- the student's study hall block
- on delayed start Wednesday starting at 8:00 in my classroom
- in the testing room after school

Students who miss more than one half of an instructional block will be marked absent for that block of instruction. See the Student Handbook on the school website for full attendance and absence policy.

Since it is in the student's best interest to make up all missed work as quickly as possible, the following guidelines have been established for make-up work:

- A. *When a student misses a class meeting*, all previously assigned work that was due the day of the absence is due no later than the beginning of the next class meeting in which the student is present. All work missed as a result of the absence is to be completed by the beginning of the second class meeting from the absence.
- B. *When a student misses two consecutive class meetings*, all previously assigned work due while the student was absent and all work missed as a result of the absence should be completed by the beginning of the second class meeting from the absence.
- C. *When a student misses three or more consecutive class meetings*, he/she must make specific arrangements for make-up work with each teacher the day he/she returns to class. The amount of time given for completion of work will be up to the teacher's discretion based on the amount of work missed and the level of difficulty of the material.
- D. Long term projects and papers are due when the teacher says they are due. In the event of an absence, the student or the student's parent should notify the teacher in advance or upon immediate return to school.
- E. Students are responsible for the work they miss while on a field trip or attending any other school event. Students should contact each of the teachers whose classes they will be missing to make specific arrangements with them regarding all make-up work. Teachers may choose for work to be submitted in advance. If the student does not follow the teacher's guidelines, the student will receive the academic penalty as assigned by the teacher.
- F. Students must make every effort to complete all make-up work according to these established guidelines. If the student has not submitted his/her make-up work within the specified timeframes outlined above or as

directed by the teacher, the teacher has the option of not accepting the work. As with anything, regular communication with the teacher is encouraged.

**XV. Syllabus Acknowledgement and Information Form**

Parents, please fill out this [form](#) online to acknowledge the receipt of this syllabus. Thank you, *Irene Yong*