

## South Gibson County High School

### Algebra II

Fall 2018

#### Teacher Contact Information:

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Room #: 120

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#### Course Description:

- This course is for the mathematically talented student who desires an extensive and comprehensive treatment of Algebra II topics and who intends to take the maximum units of high school math. Students will be expected to develop an in-depth understanding of the topics including functional analysis, and will be expected to draw relationships among the concepts studied. Use of a graphing calculator will occur through the course. Additionally, career-related topics will be presented. A good balance of activities, practice, and re-teaching will be included in lessons to assure that the material is covered and that students demonstrate learning. In addition, lessons will contain a variety of experiences in order to address the range of learning styles. This class is very rigorous. It has taken some pre-calculus standards and moved them to Algebra II.

#### Required Texts and Other Supplies:

Textbook: Algebra 2. Houghton Mifflin Harcourt. Kanold, Burger, Dixon, Larson, and Lienwand.

#### Supplies

- Paper
- Pencils
- It is suggested that you purchase a scientific calculator (TI-83 Plus, TI-84 Plus, or TI-Inspire). We will have a class set of calculators, but it is beneficial for students to purchase a calculator for at home use because a scientific calculator will be used throughout high school and college.

#### Assignments and Grading Scale:

##### Grading Scale:

A: 93-100%

B: 85-92%

C: 75-84%

D: 70-74%

Incomplete: 0-70%

##### Grading Period Percentage Breakdown

1st Nine Weeks	35%
Midterm	15%
2 <sup>nd</sup> Nine Weeks	35%
Final/TNready	15%

Each Nine Weeks will be made up of assignments that will be weighed as follows:

- 80% - Formal assignments  
This will include all tests and projects
- 20% - Informal Assignments  
This will include all homework, in-class work, and minor quizzes.

#### Assignments:

- Major Assignments/Assessments
  - I plan to have a test at least every 2 to 3 weeks, sometimes sooner, as well as 2 cumulative tests (the mid-term and final). Tests will be announced about a week in advance. Tests will normally be worth 100 points. Grades will be figured using 80% for formal assessments (tests and projects) and 20% informal (homework, small quizzes, exit tickets, etc.).
  - Students will also be required to complete a project throughout the semester. More information to follow.

- The tests will be cumulative which will lead to higher mastery of course objectives and will better prepare students for the cumulative end-of-course state test at the end of the course.
- **Daily Assignments**
  - Daily Assignments will range from problems of the day, quizzes, notes, and other in-class assignments. Some of these will be checked for completion and others will be checked for accuracy.
  - It is important for the teacher to assess the students as the class progresses. Not all of these assessments should be in the form of quizzes or tests. With daily assignments, the teacher will be able to check for comprehension and the need for re-teaching or extra practice as deemed necessary. Using these assessments, students should exhibit more mastery of the standards throughout the course. Small assignments along the way also help students prepare for the major assessments.
  - Homework problems will be assigned almost every night. These problems will not be overwhelming in number and should be attempted every night. Skipping homework will cause you to get behind and your class grade and test scores will be affected.

#### **Make-Up Work:**

- All missed class work or tests may be made up if the student makes the request immediately upon returning to school and if class time is not taken from other students. Make-up work must be completed within 5 days of the day missed in order to receive credit. Missing assignments will be indicated by a "0" in PowerSchool until the grade is made up. It will remain a "0" if the work is not made up in the allotted time frame mentioned above.
- You are responsible for your own work. It is your responsibility to get the notes/assignments you missed from someone in your class. We will be doing something content-related every day in this class. After you have asked a classmate for the notes/assignments you have missed, you can then come to me for further clarification and to set up a plan to make up the work.

#### **Assignments/Assessments Expectations:**

- South Gibson County High School strives to be a training ground for college and career readiness. Therefore, all students are expected to complete all assignments that support the learning of the state standards and complete those assignments to an acceptable level of mastery and in a timely manner.
- In the event that a student does not meet the requirements of an assignment/task, the following consequences will be implemented within the Mathematics Department in Honors Classes:
  - Late: On unit homework, there will be 5 points deducted for every day late. If the homework is more than a week late, the highest grade one can receive is a 70. For projects, if it is less than a week late, 5 points will be deducted and parents will be contacted. If it is less than 2 weeks late, 10 points will be deducted. After that, the student and teacher will agree to an acceptable solution.
  - Unsatisfactory Level of Performance: On informal assignments, failing grades will stay in the grade book. These are 20% of the grade and will not be made up.

#### **Classroom Expectations**

- Be respectful
- Be professional
- Give 100%

**This syllabus is subject to change at the discretion of the teacher.**

Unit #1: Quadratic equations [4 weeks]

Unit #2: Polynomial Functions [2 week]

Unit #3: Polynomials [3 weeks]

Unit #4: Rational Functions [2 week]

Unit #5: Rational Functions [2 weeks]

Unit #6: Sequences and Series [1 week]

Unit #7: Trigonometry [1 Week]

Unit #8: Statistics [1 Week]

Other Topics/TN Ready Review [4 weeks]

End of Course Project [2 weeks]

\*Note: Time periods are approximate and are subject to change at the discretion of the teacher.

Upon request, parents/guardians shall have the ability to inspect the following items: instructional materials; teaching materials; teaching aids; handouts; and tests that are developed by and graded by their child's teacher. Parents wishing to inspect such materials should contact the building level principal in writing.