

**South Gibson County High School**  
**Dual Credit Precalculus**  
**Fall 2018**

**Contact Information:**

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**Course Description:**

Pre-Calculus is the study of mathematics that focuses on the development of the student's ability to understand and apply the study of functions and advanced mathematical concepts to solve problems. The course will include an in-depth study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Other topics include sequences, series, conic sections, parametric equations and polar curves.

**Required Texts and Other Supplies:**

- You will be assigned the "Precalculus with Limits – A Graphing Approach" (Larson)
- 3-ring binder
- Loose leaf paper and graph paper
- Pencils
- Basic 4 function calculator – scientific calculators are NOT allowed
  - Cannot use symbolic or fraction calculators (every result should be shown as a decimal)
  - Examples of appropriate calculators – Sharp EL233SB, TI 1706 SV, Casio SL 300 VC

**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 40%

Midterm 10%

2<sup>nd</sup> Nine Weeks 40%

Final Exam 10%

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.

The midterm dates are October 10<sup>th</sup> and 11<sup>th</sup> and final dates are December 18<sup>th</sup>, 19<sup>th</sup>.

This is a dual credit class. Students will be required to sign a dual credit contract. The contract will state that the rigor of this class will be more intense than a regular class. As a result, students will have four points added to their grade if they follow the dual credit contract.

\*\*\* Disclaimer: This class is considered a college- level class and will be taught accordingly. Expectations of work and study habits will be expected to exceed those needed for a typical high school course.

**Assignment/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.
- 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 school days

of the day missed in order to receive credit. Students are encouraged to use the PASS Program and/or the daily Focus Sessions.

**Progressive Grading:** The math department at SGC uses what is called 'progressive grading.' The purpose of this is to give students the opportunity to improve their grade if they are willing to learn the material that has been previously assessed, but mastery has not been shown. It also requires students to retain the information that they have already learned.

**Homework:** Students will be assigned homework most nights. The following day, I will give students the opportunity to ask any questions about the homework. On the third day, I have the option to give a short homework quiz. This will be closed notes and will be directly from the homework given two days prior.

**Statewide Dual Credit Challenge Exam:** The test **must** be taken by every student in the class in order to receive the 4 points. It can only be taken once.

**Class Participation:** It is expected for students to engage in meaningful participation during the class. This means that the students are to actively participate by answering questions, offering their insights, and staying on task each day. By actively participating, students are taking control of their own learning and are not depending on a teacher to do it for them. Also, by actively participating, the teacher can have a better assessment of what the students know and don't know. Students must actively participate in any class activity assigned. This will lead students to mastery of the state standards. Specific expectations for each activity or assignment will be explained in detail, so the students will know what is expected of them. Meaningful Participation looks like (but is not limited to):

- Daily in-class comments/input/dialogue
- Active participation in small group activities
- Active Participation in partner assignment
- Preparation for class
- On task behaviors
- Compliance of class procedures

#### **Classroom Expectations**

- 1) Be present, punctual, and prepared
- 2) Keep learning at the center of focus
- 3) Challenge with respect
- 4) Monitor your airtime and share your voice
- 5) Risk productive struggle
- 6) Be engaged and optimistic

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.

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

**Course Calendar**

Time Period	Major Topics Covered	Standards Covered*
7-9 days	Solving equations and inequalities (includes polynomials, absolute value, and radical)	1a, 1b, 1c, 2
7-9 days	Transformations of graphs and characteristics and Combining functions and finding inverses	3a, 3b, 3c, 5a, 5b, 5c
5-7 days	Solving and Graphing Rational Functions	3b
9-11 days	Solving and Graphing Exponentials and Logarithms	1c, 1e, 3a, 3b, 3c, 4a
11-13 days	Angle of Elevation/Depression, law of sine/cosine, unit circle, graphs of trig functions	7a, 7b, 6a
10-12 days	Trig Identities, solving trig equations	6b, 6c, 6d, 6e
3-5 days	Equations of circles, area and arc length of a circle, switching between polar and Cartesian coordinates, vectors	7c, 8a, 8b, 8c, 8d

\*Standards can be found at:

[https://www.tn.gov/assets/entities/education/attachments/eps\\_sdc\\_precal\\_learning\\_objectives.pdf](https://www.tn.gov/assets/entities/education/attachments/eps_sdc_precal_learning_objectives.pdf)