

Banks County High School Math Department
2018-2019 Syllabus – Honors Pre-Calculus

Instructor: Brittany Brown

E-mail: brittany.brown@banks.k12.ga.us

School Phone: 706-677-2221

Course Name: Honors Pre-Calculus

Course Type: Semester /Traditional

Text: *Advanced Mathematical Concepts: Precalculus with Applications (Glencoe)*

Google Classroom Code: wkts4m

Remind Number: 81010 **Message:** @bbhprecal

Class Webpage: <http://mrsbrownbchs.weebly.com/>

Google Voice #: (470) 208-2627

Course Description/Topics Covered:

Honors Pre-Calculus is a fourth mathematics course designed to prepare students for calculus and other college level mathematics courses. Topics include the complex number system; matrices and vectors; systems of equations and their applications; interpreting and building functions; trigonometric, and inverse trigonometric functions; basic trigonometric identities and the laws of sines and cosines; conic sections; and probability.

Learning Objectives/Instructional Strategies:

The Georgia Standards of Excellence Curriculum focuses on actively engaging the students in the development of mathematical understanding by using manipulatives and a variety of representations, working independently and cooperatively to solve problems, estimating and computing efficiently, and conducting investigations and recording findings. There is a shift towards applying mathematical concepts and skills in the context of authentic problems and for the student to understand concepts rather than merely follow a sequence of procedures. In mathematics classrooms, students will learn to think critically in a mathematical way with an understanding that there are many different ways to a solution and sometimes more than one right answer in applied mathematics. Mathematics is the economy of information. The central idea of all mathematics is to discover how knowing some things well, via reasoning, permit students to know much else—without having to commit the information to memory as a separate fact. It is the connections, the reasoned, logical connections that make mathematics manageable. As a result, these standards place a greater emphasis on problem solving, reasoning, representation, connections, and communication.

Precalculus GSE Standards: <https://www.georgiastandards.org/Georgia-Standards/Frameworks/Pre-Calculus-Standards.pdf>

Grading:

Daily – (20%) This includes daily assignments such as warmups, classwork, etc .

Quiz – (20%) There will be at most 2 quizzes given per unit.

Test – (40%) Test (summative) grades are assignments/assessments such as unit tests, projects, essays, research papers, and presentations which may integrate multiple standards. These grades reflect student mastery of standards after the learning activity is completed and count as 40% of each semester average.

Final Exam – (20%) You will be given a final exam. It was count as 20% of your final average.

How Your Final Average is Calculated:

D = Daily (20%)	} Average
Q = Quiz (20%)	
T = Test (40%)	

$$\text{Final Average} = 0.80 * (\text{Current Average}) + 0.20 * (\text{Final Exam})$$

Honors component: This class is different from a regular PreCalculus class in the following ways:

- The units will taught with more depth and rigor.
- **At least one** project or extension activity will be assigned per semester.
- Chapter tests will have additional, more rigorous questions.
- Three points will be added to the final average each semester.

***Exemption policy:** There will be a final exam both semesters. You may exempt both exams if you meet the exemption guidelines.

Materials you will need for class:

- 3-ring notebook with notebook paper, Pencils, Scientific Calculator (not provided – suggested TI-30XS) & Graphing Calculator (will be checked out by student from Media Center)

Classroom Policies, Procedures, and Expectations:

1. **Respect:** Show respect to all people in this class, the instructor and your fellow students, included. Whenever your instructor is speaking you should listen without talking yourself. Also, please refrain from talking while the pledge of allegiance, moment of silence, and/or announcements are taking place.
2. **Come to class prepared to listen, participate, and practice.** You should have your textbook, notebook, calculator, and pencil with you every day. When the bell rings you should be in your seat and immediately working on the posted assignment. You are expected to continue working until the end of class. I will give you a courtesy warning when time is almost up. Until this warning is given, keep working. You do not have to wait for me to dismiss you-you can leave when the bell rings unless I specify otherwise. You will have to pay for lost or damaged textbooks and calculators.
3. **Disruptive behavior that interferes with student learning will not be tolerated.** Parents will be notified. If the behavior continues a referral will be sent to an administrator for further action.
4. **No cell phones or any other distracting devices are allowed during class.** Phones will be placed in a designated area during class time. Cell phones are not to be used during class. Failure to put these items away after given a warning will result in confiscation of the device. Parents will be notified.
5. **Attendance** When you are absent it is your responsibility to bring a note to the attendance office in order to have your absence changed from unexcused to excused, depending on the reason. Please refer to your student handbook for reasons for excused absences. It is your responsibility to get all make-up work.
6. **Make up Work:**
 - a. **EXCUSED/UNEXCUSED ABSENCES** for tests and quizzes. You must make plans with me to complete the test/quiz within 5 school days. **AFTER 5 DAYS YOUR maximum grade on these assignments will be a 50.**
 - b. **EXCUSED/UNEXCUSED ABSENCES** for DAILY assignments. You must make plans with me to complete the assignment within 5 school days. **AFTER 5 DAYS YOUR maximum grade on these assignments will be a 50.**
 - c. If you neglect/fail to turn in a daily assignment, you may turn it in BEFORE or BY the date of the date of unit test in order for it to be considered for grading. If your assignment is one day late, the grade will be a 70. If it is more than one day late, it will be given no more than a 50.
 - d. Retakes on quizzes will not be given, but if your score on a unit test is higher than a quiz from the unit being tested, your higher test grade will replace your quiz grade. You may retake **ONE** test per semester (original test grade must be below 70), and your retake grade will not exceed a grade of 70.
***Arrange dates for make-up quizzes and tests with your teachers on the day you return to school.
7. **Hall/Restroom Passes.** Please refrain from asking to go to the restroom, etc. while the teacher is presenting material. If you are given permission to leave class you should go quickly and without disrupting the class. Failure to return to class in a timely manner will result in suspending your privilege to leave class in the future and you will be written up for skipping.
8. **Refer to the student handbook for all school and county policies.** It is your responsibility to read, know, and abide by these rules, as well.

Classroom Management– The following will be used as consequences if a student does not meet expectations for behavior, electronic devices, etc.

- 1) Verbal Warning 2) Parent Contact 3) Teacher detention 4) Administration Referral

Academic Integrity: Cheating in any form will not be tolerated and will result in a zero for all parties involved. Copying on class/homework, quizzes, tests, or plagiarism are all considered cheating. You should not allow anyone to copy your work – EVER.

Extra Help: Extra help is available every morning and every afternoon. Please make an appointment ahead of time so I will make sure to be in my room.

Student Name (Printed) _____ Parent Signature _____