

Woodland High School
AP Calculus AB
2016-2017

Instructor: Mrs. Beth Burer – june.burer@henry.k12.ga.us

Room #: 122

Course Description: AP Calculus

The equivalent of one semester of College Calculus.

Textbook: Larson, Ron, and Bruce H. Edwards. *Calculus of a Single Variable, 10e, AP Edition*. Brooks/ Cole, 2014. (Replacement Cost: \$140.50)

Additional Resources: CalcChat
Get a Five Videos
Varsity Tutors
Fast Track to a 5
Barron's AP Calculus Flashcards, 2nd Edition

Materials/ Supplies:

You will need pencils, notebook paper, a 3-ring binder, divider tabs, and a graphing calculator. If you do not have a graphing calculator, and wish to purchase one, either the TI-84 Plus CE or the TI-Nspire CX are recommended. You may also check out a TI-Nspire CX to use for homework and the AP Exam.

Bring Your Own Technology (BYOT):

In addition to graphing calculator technology, we will periodically use technology as a tool for learning. Students who are found to be using devices for anything other than instructional purposes will be dealt with according to the school's disciplinary procedures.

Course Content:

1st Semester:

Big Idea 1: Limits

Big Idea 2: Derivatives

2nd Semester:

Big Idea 3: Integrals and the Fundamental Theorem of Calculus

Mathematics Practices for AP Calculus (MPACs)

1. Reasoning with definitions and theorems
2. Connecting concepts
3. Implementing algebraic/ computational processes
4. Connecting multiple representations
5. Building notational fluency
6. Communicating

Grading Policies: You must show all work (even if you use a calculator) to ensure full credit is received for correct answers. This is particularly the case in AP Calculus.

Assessments – 45%

Quizzes – 35%

Practice Work – 20%

A = 90 – 100 (110)

B = 80 – 89

C = 74 – 79

D = 70 – 73

F = 69 or below

Warm Ups:

Students should enter class and immediately begin working on the warm up activity found on the board. Students are responsible for keeping up with these questions, as they are relevant to past, current, or future tasks.

Homework/ Practice:

Homework is an important part of learning mathematics and will be assigned as necessary. A mixture of task related and textbook based assignments will be used to help students master the content being covered. You are expected to attempt, complete, and check every assignment. *Practice problems will be assigned regularly.* Mathematics is learned by practice; therefore, you are expected to do your homework when assigned. **You are expected to check your own practice problems** as we review them in class. You are expected to keep your assignments organized in your notebook at all times. *Always* show all your work. This helps me see how you are processing the problem. If asked to, be able to explain your reasoning, verbally or written.

Study Groups:

To help you master the content, I encourage you to form study groups to help you work through the problems. Collaboration on work often leads to a greater understanding of the material.

Final Exams:

The semester and final exams are cumulative. I highly recommend reviewing past material periodically so you are not overwhelmed reviewing at the end of the semester.

Attendance:

Attendance is extremely important. You miss valuable class discussions that help you master topics being covered when you are absent. It is the responsibility of the student to make arrangements to make up missed work or assessments and secure all notes from classmates. *Class time will not be spent completing makeup work.*

Makeup Work:

- A student who has been absent (EXCUSED) is responsible for meeting with me within two days of returning to school to arrange for makeup work. The time during which makeup work must be completed should not exceed the number of days missed by the student. For example, a student who was absent (excused) for three days will have two days (maximum) to arrange for makeup work and three days (maximum) to actually make up work - a total (maximum) of five days. Makeup work for this student is eligible for maximum credit for correct work.

Availability:

I am available for tutoring Thursday mornings in Lab 124, or by appointment before and after school to help you unless I have duty, a meeting, or a parent conference. After school tutoring must be scheduled in advanced in order to avoid conflicts.

Restroom / Hall Passes:

No passes will be issued during the first or last 20 minutes of the class period. Passes will be given using the student grids.

Classroom Management Behavior Guidelines

1. Come prepared (bring materials & homework, have personal electronics turned off & put away, etc.).
2. Be respectful (speak kindly, allow each other to learn, keep your workspace neat, etc.).
3. Work hard - BELL to BELL.

NO FOOD or DRINK!!! (CLEAR water in its original container is allowed)

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I have read and understand all of the objectives, requirements, and expectations for this course.

Student name (please print)

Student signature

Date

Parent/ Guardian name (please print)

Parent/ Guardian signature

Date

CONTACT INFORMATION: Please let me know the best way to reach you (e-mail or phone):

Parent/ Guardian E-Mail or Phone: _____