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**AP Calculus AB**

**2019-2020 Academic Year**

**Course Description:**

AP Calculus is a college level course. Topics covered include calculator usage, functions, graphs, limits, derivatives, applications of derivatives, integrals, and applications of integrals.

**Course Objectives:**

As a result of participating in this course, you will be prepared to take the AP Calculus AB Exam.

**Required Materials:**

* A place to keep and store notes
* A place to keep and store homework
* Graph paper
* A place to keep handouts
* Graphing calculator
* Pencil or plain blue/black ink for homework
* Ruler/straightedge

Optional but appreciated

* Box of tissues
* Clorox wipes
* Expo markers (not red, green, black, blue)

**Graphing Calculators:**

The graphing calculator should have the built-in capability to:

* Plot the graph of a function within an arbitrary viewing window.
* Find the zeroes of functions (solve equations numerically)
* Numerically calculate the derivative of a function
* Numerically calculate the value of a definite integral

LABEL YOUR CALCULATOR WITH YOUR NAME.

**Textbook: Calculus Concepts and Applications** by Paul A. Foerster

**Homework/Classwork:**

Homework is for your practice and is not graded. However, there are homework quizzes.

**Quizzes/Explorations:**

Quizzes are sub-divided into four categories, and together count for 30% of the grade.

* Facts quizzes: 5 minute quizzes. May be retaken until you earn 100%
* Homework quizzes: covers homework problems that were assigned. You may use homework to complete these quizzes. They are generally 10 minutes in length. Homework quizzes may NOT be retaken.
* AP Quizzes: These are old AP problems. They are timed: 15 minutes in length. You may retake these until you earn 100%.
* Explorations are worksheets about particular topics. These are generally done during class in partners or small groups. You may ask questions as you go, but these may not be redone.

**Examinations:**

Exams typically take place after every chapter. If a chapter is long, it may there may be two tests. If your score is not as high as you would like, talk to Miss Williams. My goal is for you to demonstrate mastery of the topics.

**Attendance:**

I expect you to participate in class and that requires you attendance and being on time. Copying someone else’s notes is a poor alternative to being in the classroom yourself, short of you being ill. You need to hear the lectures and discussions yourself. **Please attend class regularly and be on time.**

**Academic Honesty**

Eagle Ridge Academy seeks to nurture absolute respect for intellectual property. Any willful misrepresentation of another’s works or ideas as one’s own: cheating on an assignment or a test or plagiarizing will result in zero on the assignment for the first occurrence, a pillar referral, and parental contact. Further occurrences may result in failure of the course.

**Grading:**

The basic grading breakdown, in terms of percentages, are as follows:

Quarter Grades:

* 30% quizzes/explorations
* 70% exams

Semester grades

* 40% quarter one
* 40% quarter two
* 20% final exam

The grading scale for letter grades can be found in the student handbook.

**Technology**

Technology can be helpful to take notes. These are the technology guidelines:

* Technology is for individual, not group, use.
* Technology must be used for class work, not games or surfing the internet.
* You must be able to keep up with everyone else taking notes; I will not wait for you because you do not know how to use your technology.
* I must be able to see what you are doing. Do not change the screen or turn the screen away from me.
* If you do not follow the rules you may lose the privilege of using technology.
* You are not guaranteed a power source; your device should be charged.
* Cell phones are not allowed.

**Things to Note:**

1. **Take careful notes in class**! This way, if you struggle with a problem, you have another resource to go back to.
2. **Do your homework/classwork!** This helps you understand the material, and know what to ask when you don’t understand the material.
3. **Ask questions.** If you have a question about class material or assignments, ask me about it, either in or outside of class. You will have to take the first step—ask me, email, or stop by my office.
4. **Use class time wisely.** This is a great way to have resources if you run into trouble.

**Absences**

* ***Illness/unknown ahead of time***—It is best to make up the work as quickly as possible. In general, the number of days absent + 1 is the number of days to make up work.
* ***Field trips***—you are expected to turn in any work due on the day of the trip, as well as arrange to take any quizzes/exams before the field trip.
* ***Pre-Arranged*—**this is when you will be on vacation and have received approval from the office ahead of time. All work must be submitted within 48 hours of your return unless otherwise arranged.

I have read and understand the requirements for this class. Return to Miss Williams on Wednesday, September 4th, 2019. You will receive the syllabus back.

Student Name Parent Name

Student Signature Parent Signature