# Bunnell Calculus 2021-22

Hi everyone, my name is Mr. Fitzsimmons and I will be your teacher for AP Calculus BC this year.  Welcome to Calculus, I hope you will find this course interesting and applicable to many other math and science courses you have taken or will take in the future.  This course is the traditional outline for Calculus 1 and 2 at the college-level and is designed to be completed in one school year. We will move at a challenging pace, but I will be here to support you.  The goal of this course is to present the material and provide learning experiences which allow you to master the concepts and ultimately be successful on the AP Calculus BC Exam.  This exam has the potential to earn you up to 8 college credits if successfully completed.

Google Classroom Code: h6zw5up

## Outline of the Course

Part 1:  Limits, Derivatives, and Integrals (AB)

In our first part of the course we will evaluate limits, derivatives, and integrals. These are the foundation of our course of study.

Part 2:  Sequences, Series, Polar Calculus, Parametric Calculus (The "C" in "BC")

This is traditionally the hardest part of BC Calculus.  We need time to process this and it is not effective when placed right before the exam.  This represents 50% of the exam material.

Part 3: Application of Differentiation and Integration (AB)

This part of the course is where we apply the concepts we learned earlier on differentiation and integration.

Part 4: AP Exam Review

The part of this course that will have the greatest impact on our success is the review where we pull everything together.

We are a team:

- Our **practices** are classes and homework assignments
- Our **meets (game day)** are quizzes and tests
- Our **championship** is on May ??, 2022 (The AP Calculus BC Exam)

The following information is information to look through before we start.  **Please email me with any questions.**

**Summer Packet (and Solutions):**  I have included a copy of my Summer Packet which is also posted in Google Classroom.  This packet is designed to highlight important parts from other previous courses.  The solutions will be posted in Mid-July.  This will give you a chance to review the solutions and see where you may have any gaps and address them before we return to school

Summer Packet

Trig Reference Sheet

Hints for Sequences and Series

**Calculator Camp:** I will also host something which I affectionately refer to as Calculator Camp.  This will be a 1 hour session to help you get acquainted with some of the features of the calculator which you may not have seen or experienced before. I guarantee you will learn at least three new things.  More information about dates and times will come in an email as we get closer to the end of summer.

Calc-u-later,

Mr. Fitz

Q: Why do bears have hairy coats?
A: Fur protection

Q: How do you make seven even?
A: Take away the "s"