

Homestead High School – Mathematics Department – Course Information Sheet 2020-21

Course Title: AP Calculus BC

Course Instructors: Greg Burroughs, Connie Murray

Textbooks:

- Calculus 11th Edition (Anton); ISBN: 978-1118886137

Course Objectives:

AP Calculus BC is a college-level course defined by the College Board that covers approximately one-full year of college Calculus. Individual and collaborative group work by students is expected in class.

Semester 1 Topics:

- Review of Functions (Precalculus); Distance Learning Gap Closure
- Limits & Continuity
- Differential Calculus
- Applications of Differential Calculus
- Integral Calculus
- Applications of Integral Calculus

Semester 2 Topics:

- Advanced topics of Integral Calculus including: study of various integration techniques, improper integrals & numerical integration
- Introduction to Differential Equations
- Infinite Sequences & Series; Taylor Series
- Applying Calculus to Polar, Parametric & Vector Functions
- AP Exam Preparation
- Hyperbolic Functions and their Calculus Applications

Academic Honesty:

- Students are expected to demonstrate a high degree of integrity and adhere to the [FUHSD Academic Honesty Policy](#).
- Work turned in for credit should be the students own original work.
- Sharing or receiving information about any assessment prior to all students' completion is a serious offense.
- Using unauthorized aides, will be considered a serious offense. Any act of cheating will be treated as serious and all students involved will receive **no credit** on the assessment/assignment.

Grading Information:

Grade Weighting (same categories used in Schoology):

- Exams & Quizzes: 50%
- Final Exam: 30%
- Assignments: 15%
- Collaboration: 5%

Grading Scale:

- A = 85–100%
- B = 75–84%
- C = 65–74%
- D = 55–64%
- F = below 55%

Grade Reporting:

- All grades will be posted via Schoology.
- Grades will be updated at least once a week.
- Collaboration grades posted at least every progress report.

Exams:

- Developed collaboratively by all course instructors.
- One mid-term exam per grading period. Includes both multiple choice and free response similar to the AP exam.
- A cumulative final exam given each semester.

Homework:

- Designed to reinforce and/or extend concepts learned in class.
- Assigned each period and due as specified in Schoology.
- Assignments should be neatly organized with all work shown.
- Posted in the classroom and on Schoology.
- Weekly AP exam prep assignment (10 multiple choice)

Late Work / Make Ups / Retake Policies:

- Assignments due per homework policy for excused absences.
- Late work for partial credit accepted up until each mid-term.
- Make up exams should be scheduled immediately upon return from an absence before the end of class.
- No retakes of exams/quizzes offered in this course.

Extra Credit:

- No extra credit given in this college-level course.

• **Homestead Preparing Students to be:** • Communicators • Critical Thinkers • Continuous Learners • Collaborators •