AP CALCULUS AB 2020-21 David Yang Room 3302
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Spring 2021 Syllabus

## Course Description

The objective of this class is to offer an instructional environment where every student has a full opportunity to learn, study, and make discoveries in the different areas of calculus. Focus for this semester will be on a review of functions and their graphs, an investigation of limits, and a rigorous study of derivatives and their applications. The students will be challenged to apply their knowledge to a number of real-life applications by working together on in-class group activities, and by individual efforts on homework assignments. The use of technology is a necessity, and graphing calculators will be frequently incorporated into the lessons.

## Second Semester Units:

I. Chapter 4, sections 1-6
II. Chapter 5, sections 2, 4, 5, 7

Chapter 6, sections 2, 3
III. Ch 7, sections 1, 2
IV. AP Exam Review

Antiderivatives/Integration ( $\sim 17$ days)
Integrals of Logs and Exponentials, ( $\sim 15$ days)
Slope Fields and Differential Equations ( $\sim 8$ days)
Area and Volume
(~9 days)
( $\sim 40$ days)

## GRADING

Grading Categories (Spring Semester 2021)
Summative Grade 65\% ( 5 Tests)
Formative Grade $\mathbf{2 0 \%}$ ( $\sim 4-6$ Quizzes)
Final Exam 15\% (*can exempt if all tests/quizzes are taken)
Homework $\mathbf{0 \%}$ (*is part of required assignment if students want to recover test grade up to $\mathbf{7 9 \%}$ )

Students will earn numerical final grades for the course if they complete at least $80 \%$ of the course's summative assignments/assessments based on the following grading scale:

- A - 90 and Above
- $\mathrm{B}-80-89$
- $\mathrm{C}-70-79$
- $\mathrm{F}-69$ and below
- I - Incomplete (If less than $80 \%$ of summative assignments/ assessments were completed)
- NG - No grade


## Summative and Formative Grades

Student grades will be calculated based upon the completion of eight summative assignments/assessments and a final exam (if applicable) using the following:

1) Ch $4.2 / 4.6,4.1$ Quiz (Riemann Sum, Integral Power Rule)
2) Ch. 4 Integrals Test
3) Ch. 5.2-5.5 Quiz
4) Ch. 5,6 Integrals \& Differential Equations Test
5) Ch. 7 Test
6) Pre-AP FRQ Quiz \#1
7) Pre-AP FRQ Quiz \#2
8) Pre-AP Test (part 1)
9) Pre-AP Test (part 2)
10) Spring Final Exam (*can exempt if all tests/quizzes are taken and have a current passing grade ) (Final Exam category, 15\%)
*The number of quizzes is subject to change depending on timeline in March and April. A chapter 7 quiz may be added as well as another Pre-AP FRQ or MC quiz

RECOVERY • All students will have one (1) attempt to redo/retake summative assignments • Eligibility for a redo/retake is for students who receive a 79 or below - Students are eligible to earn a replacement grade on a redo/retake no higher than 79 • Student redo/retakes must be completed before the next summative assessment is given or 5 school days before the end of a marking period if there is not another summative assessment given (exceptions can be made for students who have excused absences during this five-day window)

HOMEWORK • Homework assignments are due by 11:59pm the day before the formative or summative assessment. Late or incomplete homework can earn up to $70 \%$.

INCOMPLETES • FCS will adopt a NO ZERO policy for the remainder of the 2020-2021 school year • Students with missing assignments will be given an Incomplete (I) • Students who have not completed $80 \%$ of their summative assessments will be given an Incomplete (I) for the marking period • All Incompletes for credit-bearing courses must be resolved by the end of summer school 2021 (July 2021) or those grades will revert to a withdrawal failure (WF). • The district is working on procedures for students to clear Incompletes for non-credit bearing courses

## ATTENDANCE

Students will be marked present for daily course attendance if the student performs one of the following actions: participates in the synchronous lesson or is logged into the class and has direct contact with the teacher or submits an assignment in the Teams platform. If a student cannot attend "live" due to connectivity or technology issues, the student should reach out through Teams to log into the class, get information or view what was missed, and contact the teacher to alert of presence. Due to Infinite Campus attendance settings, if this happens, the teacher and/or attendance office will correct the student's attendance within 48 hours. It is the student's responsibility to reach out to the teacher to correct attendance before the end of the day.

## HONOR CODE

URL provides unique challenges to teachers and students with regards to the Honor Code. However, cheating and plagiarism will not be tolerated. Cheating is defined as "the giving or receiving, in any form, information relating to a gradable experience." Cheating is any act whose intent is to gain reward or success that is not honestly earned. Plagiarism is the presentation of materials as ones' own effort when it is actually the work of another. Violations of the Honor Code will result in a referral to the proper administrator for disciplinary action pursuant to Rule 9 in the FCS Student Code of Conduct and Discipline Handbook.

## COMMUNICATION

Students: Every student should check their FCS email EVERYDAY for announcements and communication. Teachers will communicate with students via Teams and FCS email.
Parents: Teachers will call and/or email and/or Teams meet with parents and their student, as needed, to discuss student progress.

## Textbook Info

- CALCULUS (Tenth Edition), Larson, Hostetler, Edwards (2014), Brooks/Cole, Cengage Learning
- ISBN 1-285-0603-4


## Calculators:

Graphing Calculator (TI-84 plus CE, TI-83, TI-89).

## Help Hours

7:30 am before school and after school most days to provide individual assistance and instruction, although parent conferences and faculty meetings can sometimes interrupt this time.

