

BC Calculus 3 Spring Semester, 2020

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Required Materials

- Text: Hughes-Hallet, Gleason, McCallum. (2009). *Calculus - Single Variable*, 5th ed. Pearson.
- Graphing calculator

Course Content

The course will be broken down into six units. These units are not finalized and are subject to change:

Unit 1: Improper Integrals

Unit 4: Polar Graphs

Unit 2: Sequences and Series

Unit 5: Vector Functions

Unit 3: Taylor Series

Unit 6: Differential Equations

Course Structure

Homework

- This will take the form of worksheets or problems assigned from your text or other sources, and there will be some reading from the text. This work will often form the basis for explorations, class discussions, and practice.
- Homework assignments will be posted on Google Classroom. Completed homework should be submitted through Google Classroom and will be graded for completion or accuracy.
- Homework should be neat and organized so that your instructor can follow your work. Precise and effective mathematical writing is an important aspect of learning.

Assessments

- Assessments will be given throughout the semester, approximately once every week to ten days. They will be announced in advance. There are no retakes.

AP Exam Review

- Throughout the semester, we will be spending time preparing for the AP BC Calculus exam, which will take place on Tuesday, May 5, 2020. Much of the emphasis will be on practicing and improving your mathematical writing. This review will be ongoing throughout the

semester. You will be doing “free response” problems from previous exams both in and out of class. We will also practice multiple choice problems.

Grading Policy

Your semester grade will be calculated under the following guidelines.

Quarter grade

- 75% from Quizzes
- 25% from Homework (HW, Projects, etc)

Semester grade

- 80% from cumulative semester work
- 20% from semester final exam

Course Policies

During Class

Unless instructed otherwise, please refrain from using cell phones, laptops, or listening to music during class as it hinders the learning of you and the students around you.

Policies on Late Assignments

Late homework will only be accepted one day after the due date for 50% credit.

Academic Integrity

As a member of the IMSA community, I will respect and take pride in myself, my peers, and our achievements. I will promote growth in myself and our community by using my intellect and energy to their fullest potential. I will act to uphold this statement in all of my endeavors to foster a community of trust by being honest, trustworthy, fair, respectful, and responsible.

Acts that go against this honor statement and the IMSA academic integrity policies are unacceptable and will be dealt with accordingly. Please refer to the **IMSA 2019-2020 Student Handbook** for student expectations regarding issues of academic integrity.

Downloading a course textbook (in pdf form, for example) without having a legal license to do so is a breach of the IMSA Information Technology System Policy and the IMSA Network Honor Code. Any student found in possession of an illegally downloaded copy of the text will be subject to disciplinary action according to the Board of Trustees policy.

Disclaimer

The instructor reserves the right to make changes to the syllabus. Please consult Google Classroom for any updates.

Welcome to your final semester of BC CALCULUS!