

# BC Calculus III

## Fall Semester 2019

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Often Free: Mods 3, 5, 7

Attendance: Please refer to the **IMSA 2018-2019 Student Handbook** for attendance expectations and policies. My expectations are that you come to class prepared every day and are an *active* participant in all group activities and class discussions.

### Materials Needed:

Text: Hughes-Hallett, Gleason, McCallum, *Calculus – Single variable* 5th Edition, 2009

Graphing calculator (TI-89 preferred)

Three-Ring binder for class notes, worksheets, quizzes, etc.

### Course Content:

Improper integrals, sequences and series, Taylor series, polar graphs, vector functions, and an introduction to differential equations.

### Course Components:

In-class work and 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. It needs to be completed in a timely manner, usually by the beginning of the next class period. Some assignments will be collected and checked, and some of these may receive a grade as indicated by your instructor. 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. Occasionally, there will be closed-note homework quizzes with questions directly from the homework assignment. These are meant to be short quizzes that provide good feedback for both you and your instructor.

AP Exam Review: Throughout the semester, we will be spending time preparing for the AP BC Calculus exam, which will be given in early May, 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.

Quizzes and Tests – These will be given throughout the semester, approximately once every week to ten days. They will be announced in advance.

Other: These assessments may take different forms. There may be “Take Homes,” writing assignments, projects, WebWork, or other explorations. Some may require technology.

Assignments handed in after their due date should expect to lose points, depending upon the assignment and how late the work is done.

**Grades during the semester will be averaged using the following weightings:**

Tests and Quizzes	75%
Assorted: AP Exam Review, Homework, Projects, Miscellaneous Work	25%

**Semester grades will be averaged using the following weightings:**

Cumulative Semester Work	80%
Semester Final Exam	20%

Grading Scale:

- A - 90% or above
- B - 80% or above but less than 90%
- C - 70% or above but less than 80%
- D - less than 70%

**DO NOT EXPECT ROUNDING!**

**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 2018-2019 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.

Welcome to your final semester of *BC CALCULUS!*