

BC Calculus 2

Spring Semester 2018

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Text: Hughes-Hallett, Gleason, McCallum, *Calculus – Single variable*
5th Edition, 2009.
Graphing Calculator (TI-84 and TI-89 are supported)
Three-Ring binder for class notes, worksheets, quizzes et. al.

Course Components:

In-class work: This will take the form of worksheets or problems assigned from your text or other sources. This work will often form a basis for upcoming explorations, discussions, and homework.

Homework: You can expect homework assignments most days. These should be completed by the beginning of the next class period, unless otherwise indicated. I will collect some individual homework assignments and return them with corrections. This will provide good feedback for both you and for me. The practice from homework is necessary to learn and understand the concepts as well as to gain mechanical skills. There is a strong correlation between energy put into doing homework clearly and completely and grades on tests and quizzes.

Other Stuff: We will have some “Take Homes” during the semester. These have some longer, more involved problems, often with multiple steps. These will be graded carefully for correct, complete solutions. That is, the quality of the writing is important on these assignments. I will discuss them in more detail as they are assigned. There may be a writing assignment during the semester, and there will probably be some homework assignments that are graded. There will also be at least two projects which will involve some minor write-up and/or presentations to the class.

All of these additional materials will be counted in the Homework portion of the grade (see below).

Tests and Quizzes: These will be given throughout the quarter, approximately once each week or two. They will be announced in advance.

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

Grading policy:

Important: Anything that will receive a grade will be announced in advance.

Quarter grade: 75% from Tests and Quizzes
25% from Homework, Take Homes, Written Assignments, etc.

Semester grade: 80% from cumulative semester work
20% from the semester final exam

Grading Scale: Pluses and minuses are the top 2.5% and bottom 2.5% of each grading bucket. PowerSchool has been set to round automatically to the nearest tenth of a percent, so do not expect any further rounding.

A – 90% or above
B – 80% or above and less than 90%
C – 70% or above and less than 80%
D – less than 70%

Summary order of topics: (A rough schedule is in the works. As it becomes refined, it may be found on my website listed at the top of this document.)

1. Applications of Differentiation
 - a. Sections 4.3-4.6
 - b. 2-3 weeks with 1 project (families of functions), 1 quiz, 1 exam
2. Basics of Integration and Antidifferentiation
 - a. Chapters 5-6, Section 7.5
 - b. 7-8 weeks with 3 quizzes, 1-2 exams
3. Techniques of Integration and Antidifferentiation
 - a. Sections 7.1-7.4
 - b. 4-5 weeks with 2 quizzes, 1 exam
4. Applications of Integration and Antidifferentiation
 - a. Sections 8.1, 8.2
 - b. 1-2 weeks with 1 project, 1 quiz

HONOR STATEMENT

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.

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