

Calculus II, Fall 2017

Queens College, Math 142

Prof. Christopher Hanusa

<http://qcpages.qc.cuny.edu/~chanusa/courses/142/17/>

## A normal day in this class

- ▶ **Outside class**
  - ▶ Preparing for class
  - ▶ Complete homework, Prepare questions, Read sections for the day.
- ▶ **In class**
  - ▶ Arrive on time & Be ready to participate!
  - ▶ Homework question discussion, recap.
  - ▶ Lecture portion of class
    - ▶ My philosophy: More the why than the how
    - ▶ Key concepts
    - ▶ Some examples
    - ▶ Take notes! (Bring paper, pen(cil), colors)
  - ▶ Debrief.
- ▶ **Outside class**
  - ▶ Learning after class
    - ▶ Review notes, Work through book details, Complete homework

## To do well in this class:

- ▶ **Form good study groups.**
  - ▶ Discuss homework and classwork. Study for exams.
  - ▶ Bounce around ideas, topics, questions.
  - ▶ You will depend on this group.
- ▶ **Put in the time.**
  - ▶ Three credits = (at least) nine hours / week out of class.
  - ▶ Homework stresses key concepts from class; learning takes time.
- ▶ **Come to class prepared.**
  - ▶ **Review** previous day's sections, notes.
  - ▶ **Do** the homework & prepare questions.
  - ▶ **Preview** the new day's sections.
- ▶ **Stay in contact.**
  - ▶ If you are confused, ask questions (in class and out).
  - ▶ Don't fall behind in coursework or homework.
  - ▶ I need to understand your concerns.

Homeworks posted online; first one due Wednesday!!! (And it's long!)  
All information posted on course webpage!

## The book and homework:

**Required Book:** Essential Calculus, 2nd Edition + WebAssign  
**Access:** <http://www.cengagebrain.com/course/2033830>

- ▶ First Option: Access to eBook + WebAssign
- ▶ Second Option: Looseleaf copy of book + WebAssign + eBook

Homework in this class:

- ▶ Using online homework called **WebAssign**.
  - ▶ Link on webpage to: <http://www.webassign.net/>
  - ▶ The Class Key is qc 6174 1546
  - ▶ 14 day trial starting today.
- ▶ First assignment due Wednesday, August 30.
- ▶ \* Get started early! \*
- ▶ If a question is hard, you should practice **more** like it.

## Grading policy

Final grade is based on how well you know 24 course standards (0–4).

**Standard T1.** Are you able to apply your differentiation skills from Calc I?

Are you able to evaluate derivatives involving polynomials? Trig functions?

**Standard C5.** Do you understand the concepts of  $A = \int dA$ ?  $V = \int dV$ ?

- ▶ A: Score of 3.5 or higher on 90% of standards.
- ▶ B: Score of 3 or higher on 80% of standards.
- ▶ C: Score of 2 or higher on 80% of standards.
- ▶ F: If you don't score 2 or higher on 80% of standards.

Throughout the semester we will check on your knowledge:

- ▶ Every few weeks a 40-minute Assessment with new AND old standards.
- ▶ Every week the opportunity to choose a standard to reassess.

**Key idea:** Your grade is linked to **understanding**.

You have **multiple opportunities** to show that you understand.

# Class Introductions

Arrange yourselves into groups of four or five people,  
With people you **don't know**.

- ▶ Introduce yourself. (your name, where you're from, your interests)
- ▶ What brought you to this class?
- ▶ Fill out **the blank side of** your notecard:
  - ▶ Write your name. (Stylize if you wish.)
  - ▶ Write a few words related to your name / yourself.
  - ▶ *Draw* something in the remaining space.
- ▶ Discuss with your groupmates why you wrote what you wrote.
- ▶ Exchange contact information. (phone / email / other)
- ▶ **Discuss!** What do you know about **derivatives**?
  - ▶ Brainstorm! How do you convey what you know about **derivatives** to friends?
  - ▶ Organize into themes.