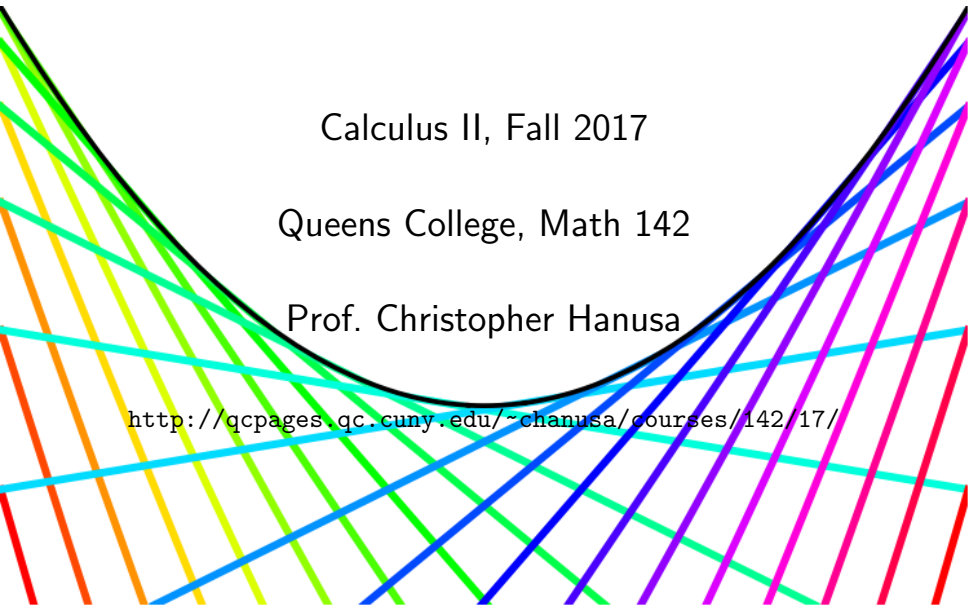


Calculus II, Fall 2017

Queens College, Math 142

Prof. Christopher Hanusa

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



A normal day in this class

- ▶ Arrive on time & Be ready to participate!

A normal day in this class

- ▶ Arrive on time & Be ready to participate!
- ▶ Homework question discussion, recap.

A normal day in this 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)

A normal day in this 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)

A normal day in this class

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.

A normal day in this class

Outside
class

In class

Outside
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.

A normal day in this class

Outside
class

In class

Outside
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.
- ▶ Learning after class
 - ▶ Review notes, Work through book details, Complete homework

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.

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.

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.

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.

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>

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

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](#).

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.

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).

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 $A = \int dA$? $V = \int dV$?

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.

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.

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.

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.

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:

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.

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**.

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**.

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)

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.

