

Math 143 Syllabus FALL 2019
Text: Essential Calculus Second Edition by Stewart
Homework Management System: WebAssign
Calculator: TI-83 or TI-84

The chapter sections given below are in Essential Calculus, Second Edition. The suggested number of classes for each chapter represent 75 minute units, 2 classes/week for 14 weeks = 28 classes, 4 classes are reserved for tests & review. All sections of Math 143 should include instruction in the use of the TI-84 graphics calculator. (Guidelines below). The calculus committee recommends 3 in-class exams equally spaced in the semester. Math 143 is using a homework management system, WebAssign which is optional for instructors. See notes below.

Chapter 6	Techniques of Integration	9 classes
	6.1 Integration by Parts	
	6.2 Trig Integrals & Substitutions	
	6.3 Partial Fractions	
	6.4 (Integration with Tables and CAS, optional)	
	6.5 Approximate Integration	
	5.8 L'Hospital's Rule	
	6.6 Improper Integrals	
Chapter 8	Series	15 classes
	8.1 Sequences	
	8.2 Series	
	8.3 Integral & Comparison Tests	
	8.4 Other Convergence Tests	
	8.5 Power Series	
	8.6 Representing functions as Power Series	
	8.7 Taylor & Maclaurin Series	
	8.8 Applications of Taylor Polynomials	

In Chapter 8, students should be familiar with manipulation of power series and the creation of new power series from well known examples. Error estimates using Taylor's remainder formula should be covered. Care must be taken during the semester to leave sufficient time to cover the topics at the end of Chapter 8.

Textbook

The physical bookstore at Queens College has closed and been replaced with an on-line service here:
<http://qc.textbookx.com/institutional/index.php> This site sells textbooks without the WebAssign HMS.

The publisher of our textbook (Cengage) offers sales direct to students here
<http://www.cengagebrain.com/course/3336215> (reportedly more affordable.)

Cengage will create a dedicated mini-site for our courses, including WebAssign as an option Details will be sent to instructors as soon as available.