

Math 1441 – Calculus I – Syllabus – Fall 2018

Section E: MW 2:30-3:45 PM – Math/Physics 1315

TR 2:00-2:50 PM – Math/Physics 1315

Prerequisite: A grade of C or better in Math 1112 or 1113, or equivalent

Instructor: Dr. Xianghong Chen

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Office: Math/Physics 3036; (912) 478-5390

Office Hours: MW 4:00-5:00 PM, TR 3:00-4:00 PM

Website: <https://sites.google.com/georgiasouthern.edu/xchen>

Graduate Assistant: Ben Hamlin (bh04078@georgiasouthern.edu)

Textbook: *Thomas' Calculus: Early Transcendentals (14th Edition)*, by J. Hass, C. Heil, and M. Weir

ISBN: 9780134786254 or alternative (should include MyLab Math access)

MyLab Math Course ID: **chen00998**

Course Description: This is the first of a sequence of courses which present a unified treatment of the differential and integral calculus. Topics include limits, continuity, differentiation, integration, and applications.

Course Objectives: The student will be able to

- Demonstrate their understanding of the definitions of limits and continuity
- Perform computations of limits and determine continuity
- Evaluate derivatives using differentiation rules
- Apply derivatives to solve problems of related rates
- Apply derivatives to find extreme values and sketch graphs of functions
- Evaluate indefinite integrals and definite integrals using integration formulas and properties
- Evaluate indefinite integrals and definite integrals using the method of substitution
- Understand the definition of definite integrals and apply definite integrals to solve area problems

Grading: Online Homework	10%
10 Quizzes	15%
3 Midterm Exams	15% each
Final Exam	30%
Total	100%

Grading Scale: 100-90	89-80	79-70	69-60	59 or below
A	B	C	D	F

Homework: Homework will be assigned weekly through MyLab Math. The lowest two homework scores will be dropped.

Quizzes/Exams: All quizzes and exams are closed book, no notes, no calculator. No makeups will be given except for tests missed for military service or documented medical emergency. The lowest quiz score will be dropped.

Attendance: Attendance is expected. Students are responsible for the material covered during the missed class.

Important Dates:

Aug 13	Monday	First day of class
Aug 13-16	Mon-Thu	Drop/Add
Sept 3	Monday	Labor Day – no class
Oct 8	Monday	Last day to withdraw without academic penalty
Nov 19-23	Mon-Fri	Thanksgiving Break
Nov 29	Thursday	Last day of class
Dec 3	Monday	Final Exam - 3:00 - 5:00 PM

Tentative Schedule (subject to change):

Week 1	Aug 13-17	§1.1-1.3 Review; §2.1; Quiz 0
Week 2	Aug 20-24	§2.2, 2.4; HW 1 due; Quiz 1
Week 3	Aug 27-31	§2.5, 2.6; HW 2 due; Quiz 2
Week 4	Sept 3-7	§3.1, 3.2, 3.3; HW 3 due; Chapter 2 Review
Week 5	Sept 10-14	Midterm 1; §3.3 cont., 3.5; HW 4 due; Quiz 3
Week 6	Sept 17-21	§3.6, 3.7; HW 5 due; Quiz 4
Week 7	Sept 24-28	§3.4, 3.10, 3.8; HW 6 due; Quiz 5
Week 8	Oct 1-5	§4.1, 4.2; HW 7 due; Chapter 3 Review
Week 9	Oct 8-12	Midterm 2; §4.3, 4.4; HW 8 due
Week 10	Oct 15-19	§4.4 cont., 4.6; HW 9 due; Quiz 6
Week 11	Oct 22-26	§4.8, 5.1, 5.2; HW 10 due; Quiz 7
Week 12	Oct 29-Nov 2	Midterm 3; §5.3, 5.4; HW 11 due; Quiz 8
Week 13	Nov 5-9	§5.4 cont., 5.5; HW 12 due; Quiz 9
Week 14	Nov 12-16	§5.6; HW 13 due; Quiz 10
	Nov 19-23	Thanksgiving Break
Week 15	Nov 26-30	Optional topics; Chapters 2-5 Review; HW 14 due
Exam Week	Dec 3-6	Final Exam: Monday, Dec 3, 3:00-5:00 PM

The course covers a lot of material quickly. It is important for you to keep up. If you find yourself falling behind or getting confused, act immediately to catch up. Take advantage of the instructor's and GA's office hours, as well as other campus resources (see below).

Additional Help:

- The Department of Mathematical Sciences offers free tutoring in Math/Physics 3000. Hours of operation are M-R: 8 AM-6 PM, F 8 AM-2 PM.
- The Academic Success Center (ASC) offers free peer-tutoring. See <http://academics.georgiasouthern.edu/success/tutoring/>

Academic Dishonesty Policy: Any student who exhibits academic dishonesty in any form will receive a failing grade (F) for the entire course and will be reported to the University Judicial Officer. For more information, see the Student Conduct Code at: <https://students.georgiasouthern.edu/conduct/>

Civility Statement: See the Student Conduct Code at the URL above.

Disability Policy: See <https://students.georgiasouthern.edu/sarc/>