

## Math 1441 – Calculus I – Syllabus – Spring 2019

**Section E (CRN 13229):** MW 09:05-09:55 AM – Math/Physics 2018

TR 09:30-10:45 AM – Math/Physics 2018

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

**Instructor:** Dr. Xianghong Chen

**Email:** [xchen@georgiasouthern.edu](mailto:xchen@georgiasouthern.edu)

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

**Office Hours:** TR 10:50 AM-12:00 PM, W 10:00-11:15 AM

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

**Graduate Assistant:** Oluwaseun Farotimi (Email: [of00437@georgiasouthern.edu](mailto:of00437@georgiasouthern.edu))

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

**ISBN:** 9780134439020 or alternative (should include MyLab Math access)

**MyLab Math Course ID:** **chen21254**

**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

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

<b>Grading Scale:</b> 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:**

Jan 14	Monday	First day of class
Jan 14-17	Mon-Thu	Drop/Add
Jan 21	Monday	Martin Luther King Jr. Holiday – no class
Mar 11	Monday	Last day to withdraw without academic penalty
Mar 18-22	Mon-Fri	Spring break
May 2	Thursday	Last day of class
May 7	Tuesday	Comprehensive Final Exam - 10:00 AM-12:00 PM

**Tentative Schedule** (subject to change):

Week 1	Jan 14-18	Chapter 1 Review; §2.1; HW 0 due
Week 2	Jan 21-25	§2.2, 2.4; HW 1 due
Week 3	Jan 28-Feb 1	Quiz 1; §2.5, 2.6; HW 2 due
Week 4	Feb 4-8	Quiz 2; §3.1, 3.2, 3.3; HW 3 due
Week 5	Feb 11-15	Chapter 2 Review; <b>Midterm 1</b> ; §3.3 cont., 3.5; HW 4 due
Week 6	Feb 18-22	Quiz 3; §3.6, 3.7; HW 5 due
Week 7	Feb 25-Mar 1	Quiz 4; §3.4, 3.10, 3.8; HW 6 due
Week 8	Mar 4-8	Quiz 5; §4.1, 4.2; HW 7 due
Week 9	Mar 11-15	Chapter 3 Review; <b>Midterm 2</b> ; §4.3, 4.4; HW 8 due
	Mar 18-22	Spring break
Week 10	Mar 25-29	Quiz 6; §4.4 cont., 4.6; HW 9 due
Week 11	Apr 1-5	Quiz 7; §4.8, 5.1, 5.2; HW 10 due
Week 12	Apr 8-12	Chapter 4 Review; <b>Midterm 3</b> ; §5.3, 5.4; HW 11 due
Week 13	Apr 15-19	Quiz 8; §5.4 cont., 5.5; HW 12 due
Week 14	Apr 22-26	Quiz 9; §5.6; HW 13 due
Week 15	Apr 29-May 3	Quiz 10; Optional topics; Chapters 2-4 Review
Exam Week	May 6-9	<b>Final Exam:</b> Tuesday, May 7, 10:00 AM-noon, in classroom

*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-5 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/>