**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

**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:**

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):

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| 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; **Midterm 1**; §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; **Midterm 2**; §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; **Midterm 3**; §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 | **Final Exam**: 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/>