

# Math 2143 - Brief Calculus with Applications

Fall 2015

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COURSE INFORMATION	Lecture Location:	MTH 217
	Lecture Times:	MWF 12:00 – 12:50
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MW 13:00 – 13:50, TR 11:00 – 14:50
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TEXT *Calculus and its Applications* (10th edition), M. Bittinger, D. Ellenbogen, S. Surgent, ISBN # 9780321694331

COURSE OVERVIEW In this course, we will develop mathematical tools which are used widely and regularly in many areas of science and everyday life. Some of these areas include Business, Economics and the Social Sciences. We will discuss the many aspects of these mathematical concepts and how they are used in the aforementioned settings.

As a general education course, this course will satisfy the goal of the mathematical or quantitative reasoning component of general education: to develop the ability of students to understand and apply mathematical abstraction. As such, students will (1) solve problems using the principles of algebra or symbolic logic; (2) apply mathematical reasoning to analyze and interpret quantitative information; and (3) use and interpret mathematical formulas.

COURSE OUTLINE We will start out learning about differentiation, then delve into some applications of this topic. Next, we discuss the transcendental functions, their derivatives, and applications of this class of functions. The next topic we shall cover is integration, theory and application will be covered. As a whole, we will cover chapters 1 through 5. You will be required to browse through chapter R on your own. If you find your knowledge of the material in chapter R lacking, you must learn it on your own time.

COURSE WORK You will be expected to read the material for each day's lecture in advance. There will be four (4) **exams** throughout the semester, each one preceded by a review day. Each exam will count for 15% of your final grade (for a grand total of 60%). A **cumulative final exam** will be given and will be worth 30% of your final grade. The remaining 10% (for those of you keep track) is based upon **class participation**. Class participation encompasses: (a) attendance and (b) actively contributing to the class's overall learning experience on a regular basis. Homework problems for each section can be found on the **schedule.pdf** document. These problems are for your own edification and will not be collected. It is strongly suggested that you attempt most of the problems given for each section, and if you have questions, bring them up in class or stop by and see me during office hours.

GRADES Your final grade will be based upon the following items

- 60% - Exams - four in-class exams throughout the semester
- 10% - Class Participation - attendance and class time contributions
- 30% - Final Exam - exam covering all of the material from the semester

POLICIES Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.

All cell phones, pagers, CD/MP3 players, laptops, calculators and other such devices must be turned off and put away before class begins. If you are caught using a cell phone or any other electronic

device during class, your final grade will be dropped by **one letter grade per incident**.

It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of the course does not appear to be effective in its method, I will attempt to change it (for the better I hope).

- IMPORTANT DATES FOR FALL 2015
- 2015.08.17 - Classes begin
  - 2015.08.21 - Last day to enroll in or add classes
  - 2015.08.21 - Last day to drop a class with no grade record
  - 2015.08.21 - Last day to drop a class with refund/no charges
  - 2015.10.14 - Last day to drop a class with automatic 'W'
  - 2015.10.30 - Last day to complete final application for graduation
  - 2015.11.11 - Last day to drop a class
  - 2015.12.11 - Classes end

SPECIAL ACCOMMODATIONS Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745-2392 (TDD# 745-2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.

AT-RISK STUDENTS Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745-2988 to schedule an appointment during normal working hours Monday - Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745-2911 or the Mental Health Crisis Hotline at 1-(800)-522-1090.

EQUAL OPPORTUNITY STATEMENT In Compliance with Title VI of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and other Federal Laws and Regulations, Southeastern Oklahoma State University does not discriminate on the basis of race, color, national origin, sex, sexual identity, sexual orientation, age, religion, handicap, disability, or status as a veteran in any of its policies, practices or procedures, this includes but is not limited to admissions, employment, financial aid, and educational services.

TITLE IX OF THE EDUCATION AMENDMENTS OF 1972 (20 U.S.C. §1681) states: "No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance..." Southeastern Oklahoma State University does not discriminate on the basis of sex in its education programs or activities, in compliance with Title IX and the U.S. Department of Education's regulations at 34 C.F.R. §§86.1 et seq. Individuals who believe they have been discriminated against on the basis of sex may contact S.E.'s Title IX Coordinator at (580) 745-3090, titleix@se.edu, or PMB 2750.