

Syllabus for Math 1190 sec. 51 (CRN: 82773)

Fall 2016

Instructor: L. R. Ritter

Office: D 211

email: lr Ritter@kennesaw.edu

Tel: 470-578-3951

Office Hours: M 11am–1pm, W 11am–12pm, F 7:30am–7:50am, and by appointment

Course Home Page http://facultyweb.kennesaw.edu/lritter/Ritter1190_F16.php

Course Description: This is a four hour first course in Calculus. This course introduces the central concepts of calculus; topics include limits, continuity, derivatives of algebraic and transcendental functions of one variable, applications of these concepts (e.g. optimization, linearization and approximation, related rates) and a brief introduction to the integral of a function. Students will be expected to state and apply basic definitions and theorems. We will meet for lecture three times weekly MWF from 8am–9:10am in D218. Students are expected to attend all lectures and to keep up with course assignments. All assignments will be posted on D2L and the course page http://facultyweb.kennesaw.edu/lritter/Ritter1190_F16.php You should plan on visiting these venues often.

Prerequisites: A grade of C or better in Math 1112 or Math 1113, or approval of the math department chair

Course Materials: *Calculus Early Transcendentals* by Michael Sullivan and Kathleen Miranda ISBN 978-1429254335. No calculator purchases is required for this course. **Calculators will not be needed or allowed during exams.**

Learning Outcomes: Upon completing this course, students will be able to

1. evaluate the limit of a function, and determine whether a function is continuous at a point or on an interval;
2. take derivatives of elementary functions using the basic derivative rules;
3. take derivatives of functions using advanced techniques including implicit and logarithmic differentiation;

4. use limits and derivatives to solve applied problems (such as related rates and applied optimization) and to analyze the characteristics of a function;
5. determine antiderivatives, and use the fundamental theorem of calculus to compute definite integrals and to evaluate the area of a region bounded by a curve;
6. write expressions, equations, and problem solutions using proper terminology and standard notation.

My Goals: In coordination with the above learning outcomes, my goal is to expose you (the student) to the developed mathematical concepts of the limit, derivative, and Riemann integral; to help you attain a sense of understanding and ownership of these concepts, and to aid in your mastery of the processes and operations of calculus that are used to solve applied problems. Upon successful completion of this course, I want you to have the basic foundation needed to engage in further study (e.g. other math and science courses) and to engage in implementation (such as in engineering, science, business, or other applications).

Grading and Evaluation: Your course grade will be the weighted average of your score on 4 midterm exams, one final exam, a homework-quiz average, and a participation grade.

The grades will be weighted as follows:

Table 1: Grade Weights

Exam I (W 8/24 & M 9/12)	Exam II (M 10/10)	Exam III (M 10/31)	Exam IV (F 12/2)	Quiz (Weekly)	Participation (Daily)	Final (W 12/7)
15%	15%	15%	15%	15%	5%	20%

A = 90%–100%, B = 80%–89%, C = 70%–79%, D = 60%–69%, F = 0%–59%

Quizzes & Homework: Homework problems will be assigned from the course text for each topic that we cover. The assigned problems will be listed on the course webpage

http://facultyweb.kennesaw.edu/lritter/Ritter1190_F16.php

under the heading "Homework." **I will not collect the homework.** I will give a brief (10 minute) quiz at the beginning of class most Fridays. The quiz problems will come directly from the homework assignment. I may on occasion (solely at my discretion) allow you to use your completed homework while taking the quiz. To maximize your potential for success in this course, I strongly encourage you to

- complete each homework assignment immediately following coverage of the material;
- dedicate a folder to homework for this class, and keep your assignments neat and well organized;
- work at each problem until you can solve it correctly; get help if you need it, don't give up;
- practice using complete and proper notation while writing your homework.

There will be 10-14 quizzes during the semester. The two lowest quiz grades will be dropped. The remaining will be averaged to obtain 15% of the grade for the term. **Make up quizzes will not be given under any circumstances.** Except in the case of an excused absence (see attendance and make-up policy), a missed quiz will be assigned a grade of zero. If you arrive to class after a quiz has been started, you should remain outside of the classroom until the quiz is complete. **Late comers will not be allowed to participate in the quiz.**

Exams: We will have four midterm exams each worth 15% of the semester grade. The exam dates are shown in the grade table 1 as well as the important dates table 2 at the end of this syllabus. **No use of a calculator, notes, or other resources will be allowed during the exams.** All four midterm exams are mandatory. Except in the case of an excused absence (see attendance and make-up policy), a missed exam will be assigned a grade of zero. We will have one comprehensive final during the time designated by the University. The final is 20% of the semester grade. If your course average prior to the final exam is at least 95%, you will be exempted from the final and will receive a course grade of A. The final exam grade may be substituted for the lowest midterm exam score **provided** your combined quiz and participation grade is at least 75%.

Participation: I will take attendance everyday. (Note that attendance is reported to the University in compliance with various funding regulations.) You can earn up to 2 participation points per day by

- attending class for its duration and being on time;
- participating in the clicker polls conducted throughout class;
- participating in all in-class work assignments; and
- refraining from unwarranted use of electronic devices (i.e. texting, websurfing).

An unexcused absence will result in a participation grade of zero. Repeated use of disallowed electronic devices will result in a participation grade of zero and an invitation to leave the room. Excused absences will not count against your participation grade. The two lowest participation grades will be dropped, and the remaining will

be averaged to obtain the 5% participation grade for the term.

Attendance and Make-up Policy: Regular class attendance is critical to academic success. Hence I strongly encourage you to attend all classes and keep up with assignments and course events. An unexcused absence will result in a participation grade of zero for that day. That said, I will excuse an absence if (1) I am informed as soon as possible (via email or voicemail), and (2) there is a good reason. Good reasons include (but are not limited to) your illness or the illness of someone who depends on you, an academic or University sports commitment, a legal obligation, or an unforeseen travel issue. Reasons that are not excusable include (but are not limited to) over sleeping, or working on a project for another class. Excused absences will not count against your participation grade.

Missing a Quiz: Two quiz grades will be dropped. I will only excuse you from a quiz if I am notified in advance and receive documentation for the excuse (e.g. doctor's note, order to appear, notification from a faculty adviser). An excused quiz will reduce the number of quizzes that make up your average. Quizzes will only be excused in the case of (1) significant illness of you or your dependent, (2) your legal obligation to appear in a court, or (3) your attendance at an academic conference or competition.

Missing an Exam: All exams are mandatory. In order to be excused from an exam, you must notify me in advance (or as soon as circumstances allow), and provide documentation (e.g. doctor's note, order to appear, notification from a faculty adviser) of your reason for missing the exam. If you meet both of these criteria, I will allow your grade on the final exam to substitute for the missed exam. Failure to obtain an excused absence will result in a grade of zero for the exam.

Academic Integrity Every KSU student is responsible for upholding the provisions of the Statement of Student Rights and Responsibilities, as published in the Undergraduate and Graduate Catalogs. Section II of the Statement of Student Rights and Responsibilities addresses the University's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the Department of Student Conduct and Academic Integrity (SCAI), which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure,

which may subject a student to the Code of Conduct's minimal one semester suspension requirement.

Notice on Course Withdrawal: Students are solely responsible for managing their enrollment status in a class; nonattendance does not constitute a withdrawal. Per university policy, I will assign a grade of WF to all students who do not complete the semester, where not completing the semester is defined as ceasing to attend class and take exams prior to the last two weeks of the semester. I am required to report the last date of attendance when assigning a grade of WF. **My compliance with this policy may affect your financial aid.**

Students with Disabilities I will attempt to accommodate all students with special needs to the best of my ability, but it is the responsibility of the student to make their needs known to me. Students with disabilities who believe they may need accommodations in this class are encouraged to contact the counselor working with disabilities at 678-915-7244 (Marietta) or 470-578-2666 (Kennesaw) as soon as possible to better assure that such accommodations are implemented in a timely fashion. (Additional contact information email: sds@kennesaw.edu and webpage: <http://studentsuccess.kennesaw.edu/sds/index.php>).

Cell Phone, Tablet, Laptop Policy Unless otherwise stated, use of cell phones, laptops, or tablets is not allowed during class. At least one participation point will be deducted for unwarranted use of such devices during class. Any student who must be repeatedly asked to refrain from texting or surfing the web will be invited to leave. **At no time will still or video photography be allowed during class.**

Table 2: Important Dates

Aug. 15	First Day Fall Term	Aug. 24	Part 1 of Exam 1
Sept. 5	Labor Day	Sept. 12	Part 2 of Exam 1
Oct. 5	Withdrawal Deadline	Oct. 10	Exam 2
Oct. 31	Exam 3	Nov. 21–25	Fall Break
Dec. 2	Exam 4	Dec. 5	Last Day of Classes
Dec. 7	Final Exam	8:00am–10:00am	D218