Course Syllabus for Math 1190 – Calculus I
Spring 2016

Instructor: Dr. Charles Y. Kang
E-mail: ykang4@kennesaw.edu (Please indicate Math 1190/Section/Days and Times we meet either in the subject line or in the email body.)
Phone: 470-578-3423
Webpage: http://facultyweb.kennesaw.edu/ykang4
Office: D234 (Marietta Campus)
Office Hours: MW 3:20 – 3:50pm, TR 5:40 – 6:30pm, or by appointment

SI Leader: Mr. Joshua Crawford (jcrawf67@students.kennesaw.edu)

A Course in the General Education Program

Program Description: The General Education at Kennesaw State University program offers a comprehensive series of interrelated courses in the liberal arts and sciences for all Kennesaw State University students. Whereas the major program contributes depth within a chosen specialization, the General Education core provides breadth of understanding within a variety of disciplines. Together, the General Education core and the major degree program offer students the knowledge, skills, and perspectives to become informed and engaged citizens living in a diverse, global community.

Program Goals: The General Education Program at KSU has four goals. During the course of the program, students should achieve the following:

- Demonstrate knowledge and understanding of general education disciplines.
- Demonstrate proficiency in communication.
- Demonstrate skills in inquiry, critical thinking, analysis, and problem solving through scholarly and/or creative activity across the general education disciplines.
- Demonstrate an understanding of ethics, diversity, and a global perspective.

MATH 1190 satisfies one of Kennesaw State University’s general education program requirements. It addresses the Applied Math learning outcome. This learning outcome states:

Applied Math: Students will demonstrate an ability to effectively apply symbolic representations to model and solve problems.

For more information about KSU’s General Education program requirements and associated learning outcomes, please visit the topic "University-Wide Degree Requirements" in the KSU Undergraduate Catalog.

General Education Assessment Study:

Kennesaw State University is currently engaged in a campus-wide assessment of its general education program. The purpose is to measure student achievement with respect to faculty defined student learning outcomes. This course has been selected to participate in the process. No individually-identifiable student information will be collected as part of the assessment. Data will be reported only in aggregated form. Students should know that the data may be used for scholarly work by members of KSU faculty (but only in anonymous and aggregated form). If you are opposed to having your anonymous data used for scholarly work, you can “opt out” of this specific aspect of the process.

For more information on the general education assessment process and for access to an “opt out” form, please click http://kennesaw.edu/curriculum/gen-ed-assessment.html
Student Learning Outcomes: Upon completing this course,

1. The student will be able to determine the limit of a function, including limits involving infinity, numerically, graphically, and analytically, including using the Squeeze Theorem.
2. The student will be able to determine the continuity of a function at a specific number and on an interval, both graphically and analytically.
3. The student will be able to use the Intermediate Value Theorem.
4. Students will be able to compute derivatives of basic functions using the limit definition of the derivative.
5. Students will be able to calculate derivative functions using the common rules: power, product, quotient, and chain rules, and be able to calculate the derivatives of polynomials, exponential and logarithmic functions, and trigonometric and inverse trigonometric functions.
6. Students will be able to use implicit differentiation and logarithmic differentiation.
7. Students will know that the Mean Value Theorem can be used to prove the Increase/Decrease Test. Student will use knowledge of derivatives in applications including, but not limited to, maximum-minimum problems, shapes of curves, indeterminate forms, and L’Hôpital’s Rule.
8. Students will be able to calculate antiderivatives for basic functions using their knowledge of derivatives.
9. Students will be able to use the definition and geometric interpretation of the definite integral to evaluate definite integrals of basic functions.
10. Students will be able to use the Fundamental Theorem of Calculus to evaluate definite integrals.

Prerequisite: A grade of “C” or better grade in MATH 1112 or MATH 1113 or approval of department chair.

Textbook (Required): Calculus, Early Transcendentals, 1st edition, by Sullivan & Miranda

Online Resource (Required):
WebAssign (includes access to the complete e-Text version of the textbook). New books purchased at the KSU and General bookstores should come bundled with a student access code for WebAssign. Anyone just wanting to purchase the student access code for WebAssign (without purchasing the physical textbook) can purchase access to WebAssign at www.webassign.net.

Calculator Policy: Calculators are NOT allowed for all tests.

Homework and Classwork: Homework will be assigned at the end of each section and will be completed via Webassign. The self-enrollment code for webassign is kennesaw 2401 5118

There will be classwork to be done and turned in during most classes. The dates for classwork may NOT be announced, so please attend all lectures.

Tests: There will be a total of three (3) tests throughout the semester (not counting the final exam). All test dates will be announced in class. All tests are mandatory, but your lowest test percentage will be replaced by the final exam percentage.* At most one make-up test may be allowed at the instructor’s discretion. Its request must be made with valid documented reasons, and, if approved, the make-up test must be taken a priori to the scheduled test time. A make-up exam after the scheduled test time will not be given under any circumstances.

Final Exam: Final Exam is cumulative and will cover all material presented in class. Again, everyone must take the final exam. It will be held during the finals week at the time appointed by the university. Thus, do not make plans to leave BEFORE taking the final exam. The final exam date and time for each section are:

Section 53 (MW 4-5:40): May 09 (Monday), 3:30 - 5:30pm
Section 66 (TR 2-3:40): May 05 (Thursday), 1:00pm - 3:00pm
Section 67 (TR 4-5:40): May 05 (Thursday), 6:00pm - 8:00pm
Grades: Your final grade in the class is “weighted” using the following percentages:
- 60% Tests (That is, 20% for each of the three counted tests)
- 15% Homework and Class work
- 25% Final exam

Grading Scale: A= [90, 100], B = [80, 90), C = [70-80), D = [60-70), F = [0,60)

Attendance Policy: Regular attendance is crucial to your success not only in the class but also for your future mathematics courses, such as Calculus II and/or III. Please come on time and stay for the duration of the class. If you cannot attend regularly, on time, and stay for the entire class period, I highly recommend you take this class at another time that fits your schedule.

Important Dates:
- Classes begin: Monday, Jan. 11
- Last day to withdraw with a grade of W: Wednesday, Mar. 02
- Spring Break: Saturday-Friday, Apr. 02 – Apr. 08
- Last day of classes: Monday, May 02

Withdrawal:
Students who find that they cannot continue in college for the entire semester after being enrolled, because of illness or any other reason, need to complete an online form. To completely or partially withdraw from classes at KSU, a student must withdraw online at www.kennesaw.edu, under Owl Express, Student Services.

The date the withdrawal is submitted online will be considered the official KSU withdrawal date which will be used in the calculation of any tuition refund or refund to Federal student aid and/or HOPE scholarship programs. It is advisable to print the final page of the withdrawal for your records. Withdrawals submitted online prior to midnight on the last day to withdraw without academic penalty will receive a “W” grade. Withdrawals after midnight will receive a “WF”. Failure to complete the online withdrawal process will produce no withdrawal from classes. Call the Registrar’s Office at 770-423-6200 during business hours if assistance is needed.

Students may, by means of the same online withdrawal and with the approval of the university Dean, withdraw from individual courses while retaining other courses on their schedules. This option may be exercised up until March 2, 2016.

This is the date to withdraw without academic penalty for Spring Term, 2016 classes. Failure to withdraw by the date above will mean that the student has elected to receive the final grade(s) earned in the course(s). The only exception to those withdrawal regulations will be for those instances that involve unusual and fully documented circumstances.

Note: “Students are solely responsible for managing their enrollment status in a class; nonattendance does not constitute a withdrawal.”

Classroom Conduct:
A collaborative and respectful learning environment is expected and must be maintained. I expect you to come to class with a commitment to learn and to take responsibility for your learning. This includes participating in the discussions, taking notes, and helping others to learn. Also, please do not hesitate to ask questions.

You are responsible for conducting yourself in a manner that respects the right of the instructor as well as the others seeking to learn. Thus:
- Cell phones need to be on mute (except in extenuating circumstances). When taking tests/final exam, all electronic devices must be turned off and put away.
- Please do NOT talk when the instructor is talking.
- Please come to class prepared to participate.

You may be asked to LEAVE the room for misconduct or inappropriate behavior during class.
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, and/or a formal hearing procedure, which may subject a student to the Code of Conduct's minimal one semester suspension requirement.

A student caught with academic misconduct will not have his/her lowest exam replaced with the final grade.

Students with Disabilities:

Any student with a documented disability or medical condition needing academic accommodations of class-related activities or schedules must contact the instructor immediately. Written verification from the KSU Student Disability Services (http://www.kennesaw.edu/stu_dev/dsss/welcome.html) is required. No requirements exist that accommodations be made prior to completion of this approved University documentation. All discussions will remain confidential.

Helpful Study Hints:

- Do not miss class, and fully focus on each lecture.
- Actively participate in group work. Do not let others do all the work for you.
- Complete your homework as soon as it is posted.
- Form a study group.
- Take advantage the free tutoring lab (SMART center).

Disclaimer:

The instructor reserves the right to make any changes to the syllabus, if necessary. In such events, students will be notified as early as possible, so any adjustments can be made to their schedules.