SYLLABUS, CALCULUS I, MATH 1206, SUMMER SESSION I, 2017

INSTRUCTOR: PROFESSOR MELKANA BRAKALOVA

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Course Objectives: We will review functions and graphs. The new material includes limits and continuity, the intermediate value theorem, derivatives, mean value theorem, slope of a curve, instantaneous rate of change, velocity, power, sum, constant multiple, product, chain, quotient rules of differentiation, derivatives of trigonometric functions, linear approximation, higher order derivatives, applications of the derivative to graphs, critical points, extrema, concavity, optimization questions, related rates, Riemann sums, the definite integral, computation of simple integrals from the definition, the Fundamental Theorem of Calculus, net change of a function, evaluating definite integrals and the substitution rule.

Technology: You need to have at least a scientific calculator. A TI Graphing Calculator (TI 83 or higher) is recommended. Its use may be restricted on tests and quizzes. The syllabus, homework assignments and other course materials and announcements will be posted on Blackboard and e-mailed. Please retrieve such information from the blackboard every day and check your e-mail on a regular basis.

Quizzes, Tests and Final Exam: We will have two tests, a few quizzes, and a final exam on the last day of the summer session.

Homework: There will be written homework which is graded by the instructor and on-line assignments. The online platform allows one to reenter his/her answers and provides instantaneous feedback and multiple opportunities for correcting one’s work.

Grade distribution: 45% of the grade is based on the tests and quizzes, 25% on homework, and the remaining 30% are based on the final exam.

Recommended supplementary materials: "Just in Time, Algebra and Trigonometry for Students of Calculus" by Brent and Mueller, Addison Wesley, 2006. This is an optional book that will help those who have difficulties with the algebra and trigonometry concepts required for the course.

College Policy on Academic Integrity: I would also like to draw your attention to the College Policy on Academic Integrity. It explains the colleges expectations and procedures.

Best wishes for a successful summer session.