Calculus with Analytic Geometry 2
Course Outline
MATH 15500 Section 06 [1947], Spring 2017
Tuesdays and Fridays 09:10 - 11:00, Room: HW511
CUNY Hunter College

Instructor: Dr. Byungdo Park

Email: bpark@gradcenter.cuny.edu

Office hours: Tuesdays 11:30–12:30 at HE924 or by appointment.

Course Syllabus: The departmental course syllabus and the course calendar is available at: http://math.hunter.cuny.edu/mbenders/M155BriggsLecture.pdf

Section webpage: Announcements, homework, exam schedules and other relevant information will be posted on the following webpage: http://tinyurl.com/s17huntermath155 which is also accessible via instructor's webpage: http://wfs.gc.cuny.edu/bpark/www

Textbook: Briggs, Cochran, and Gillett, *Single Variable Calculus*, 2nd Edition, with **MyMathlab**, Pearson Publishing, ISBN-10: 0321965140

Course description: There are two main themes in this course. Assuming familiarity on the fundamental theorem of calculus and a few calculation techniques, we shall study technical aspect of integration: Calculating volumes, length of curves, surface areas, and useful integration techniques such as integration by parts. There will be an interlude on inverse, logarithmic, and inverse trigonometric functions. After that, we will revisit the concept of limit in the context of sequences for convergence tests of series. This will lead us to the discussion on approximating any function in terms of polynomials if the given function is nice enough. Finally we shall learn calculus in polar coordinate system. If time permits, we shall cover special topics for this course such as Fourier series, Fourier transforms, or first-order ordinary differential equations. The instructor may also give presentations using MAPLE or MATLAB to visualize some of concepts.

Exams: There will be *two* in-class midterm exams and an in-class final exam. Location, date and time will be announced as soon as determined. Generally speaking, exam dates follow the schedule in the course calendar, except that the final exam will be given during the final exam week. There is no uniform final exam for this course.

MyMathLab: Each student should create an ID for MyMathLab and registered for the course with the course ID **park23715**. The deadline for all MyMathLab assignment is 19 May 2017, 23:59.

Grading Policies: Please see the course syllabus for MATH 155, "Suggested policy on Homework,

Exams, Grade." The instructor will follow this suggestion except that the weight of each item will be as the following:

- 25% from Exam I
- 25% from Exam II
- 40% from Exam III (Final exam)
- 10% from Homework or MyMathLab.

Attendance policies: Attendance data will be collected in every class meeting and will be used for various purposes, including determination of grades INC, WN, or WU. However the total score for the final letter grade will not reflect the attendance record.

Instructor's policies: Cell phones are not allowed to use in class. Electronic devices should not be shown in any exam.

Important dates:

- Monday April 10th – Tuesday April 18th: Spring Recess
- Friday May 19th: No class — Reading day