Mathematics 112/112Z, Fall, 2010

<u>Textbook:</u> Stewart, <u>Single Variable Calculus</u>: 6th edition

<u>Instructor</u>: Fang Chen, Office - Pierce 120A, Phone: 770-784-4639, e-mail: <u>fchen2@emory.edu</u>

Office Hours: Tuesdays, Wednesdays 2:30 – 4:30 pm (subject to change) or by appointments

<u>Content</u>: Mathematics 112 is the second semester of calculus and is designed specifically for students who have completed a semester of college calculus (Math 111, Math 111Z, Math110B, or AP Calculus). Course content includes methods of integration, improper integrals, polar coordinates, sequences and infinite series, power series, and introduction to differential equations. Specific topics by class day are attached.

Goals: At the completion of the class, students should have (1) a basic understanding of derivative, of antiderivative, and of limit; (2) a basic understanding of power series and be able to determine the domain of appropriate power series. Students should also be able to (1) use the rules of differentiation as they apply to algebraic and transcendental functions; (2) evaluate a variety of limits; (3) sketch graphs of transcendental functions by building on concepts from Calculus I; (4) demonstrate appropriately the methods of integration (substitution, integration by parts, trigonometric substitution, partial fractions) and use these methods with typical indefinite, definite, and improper integrals; (5) graph and find area using simple polar coordinate expressions; (6) determine convergence of appropriate infinite series by giving logical arguments; (7) derive a power series expression for certain transcendental expressions using a geometric series or Taylor's Theorem; (8) solve simple first-order differential equations.

<u>Attendance</u>: The student is expected to attend all classes since the student is responsible for work covered in class and for any announcements made in class. An inordinate amount of absences will be handled in accordance with school policies.

<u>Quizzes:</u> About 10 quizzes will be given in class. Most of them will be unannounced. Details will be explained in class.

<u>Homework</u>: Specific topics included in this course are attached. Homework will be assigned in the outlines posted after each lecture on the Blackboard site. Homework will be collected and graded regularly. Although only selected problems will be checked, it is important that the student successfully complete all the problems assigned.

Students will need to spend at least 2 productive hours of study for each class session, or about 6 to 8 hours per week. Students should not get behind or wait until the night before a test to study. Sleep is important prior to tests.

<u>Gateway Test:</u> In order to pass Math 112/112Z, the student must pass a Gateway exam. This exam is made up of eight problems as follows: two limits to evaluate (including using L'Hospital's Rule), two differentiation problems (any transcendental function may be included), and four integration problems (using any of the techniques such as u-substitution, trigonometric substitution, integration by parts, and partial fractions). To pass this test, a student must work at least six problems correctly. Points will be earned as follows:

all eight problems correct 100 points seven problems correct 90 points six problems correct 80 points

<u>Major Tests:</u> Four major tests will be given. All of the tests will be comprehensive. Test 4 will be worth more points.

Each student is expected to take tests at the scheduled times. Any conflicts or problems will be handled on an individual basis. If the excuse is considered legitimate by your instructor, arrangements will be made to take a test on the afternoon **prior to** the testing time. Emergencies will be handled on an individual basis. Documented special accommodations for test taking must be cleared several days prior to the test date so that appropriate arrangements can be made.

Calculators: Calculators will **not** be allowed on any work handed in for grades.

<u>Grading</u>: The final course grade will be determined as follows:

Major Tests (3 @ 100 points and 1 @ 150 points)	450 points
Gateway Test	100 points
Homework	100 points
Quizzes (10 @ 5 points)	50 points
TOTAL	700 points

In general, letter grades will be determined as follows:

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A: 91% and above; B: 81 – 90%; C: 71 – 80 %; D: 61 - 70%; F: less than 59%
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Grades of A-, B+, B-, C+, C-, D+ may be assigned for percentages near the above cut-offs.

<u>Blackboard Website:</u> There is a course website on the Blackboard: http://classes.emory.edu Outlines for each lecture (including homework assignment and extra handouts) will be posted after every class. Announcements, scheduled SI sessions, questions related to problems, and other information can be posted at any time. Students may ask questions and make requests of a general nature on the site (individual concerns should be sent directly to your professor). The student is responsible for checking the site every day and obtaining homework assignment, extra handouts and other related information.

<u>Supplemental Instruction, Tutoring and Study Groups:</u> The SI leaders will be announced. They schedule study sessions to review calculus concepts, to help students discover how best to study calculus. Check the Blackboard for announcements.

Contact Mr. Paul Oser, Director of the Mathematics Center for tutoring hours, most likely M-TH, 3-6 pm.

Study groups, organized by students are highly recommended.

Written Style: Neatness is one way of showing courtesy toward your instructor and pride in your work. Thoughts in mathematics are expressed in sentences, such as "1 + 1 = 2". There is a subject "1 + 1", a verb "=", and a predicate "2". The student should strive to be neat and to use mathematical symbols appropriately.

THE HONOR CODE OF OXFORD COLLEGE APPLIES TO ALL WORK SUBMITTED FOR CREDIT IN THIS COURSE. BY YOUR SIGNATURE ON SUCH WORK YOU PLEDGE THAT WORK WAS DONE IN ACCORDANCE WITH THE RULES STIPULATED ON THE WORK OR IN THIS SYLLABUS.

Schedule of Topics (subject to adjustments)

27-Aug Monday Monday L'Hopital's Rule 1-Sep Wednesday L'Hopital's Rule 3-Sep Friday Review Functions, Limits, Differentiation 1-Sep Friday L'Hopital's Rule 3-Sep Friday L'Hopital's Rule 3-Sep Friday Review Integration 13-Sep Monday Integration by Parts 15-Sep Wednesday Review Integration 15-Sep Friday Review Integration 16-Sep Thursday Review for Test 1 16-Sep Friday Integrals with Trig Functions 17-Sep Friday Partial Fractions 17-Sep Monday Improper Integrals 18-Oet Friday Partial Fractions 18-Oet Wednesday Improper Integrals 18-Oet Wednesday Infinite Series 18-Oet Friday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Friday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Friday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Friday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Friday Infinite Series 18-Oet Wednesday Infinite Series 18-Oet Friday Ratio and Root Test 18-Oet Wednesday Power Series 18-Oet Friday Power Series 18-Oet Wednesday Power Series 18-	25-Aug	Wednesday	Review Functions, Limits
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