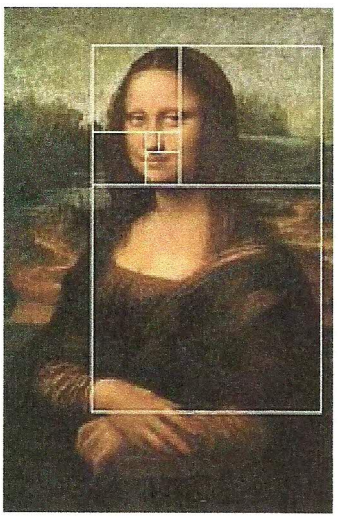
Math 100C
Fall/2013
Senior Lecturer: Mrs. Susan Riner



Thoughts on mathematics…….

In the pure mathematics we contemplate absolute truths which existed in the divine mind before the morning stars sang together, and which will continue to exist there when the last of their radiant host shall have fallen from heaven. Edward Everett

If I feel unhappy, I do mathematics to become happy. If I am happy, I do mathematics to keep happy. Alfréd Renyi

From *Alice's Adventures in Wonderland* by Lewis Carroll: The Mock Turtle went on. 'We had the best of educations ... Reeling and Writhing, of course, to begin with, and then the different branches of Arithmetic: Ambition, Distraction, Uglification, and Derision.'

The mathematical sciences particularly exhibit order, symmetry, and limitation; and these are the greatest forms of the beautiful. Aristotle

With equal passion I have sought knowledge. I have wished to understand the hearts of men. I have wished to know why the stars shine. And I have tried to apprehend the Pythagorean power by which number holds sway about the flux. Bertrand Russell

And my personal favorite:

Life is good for only two things, discovering mathematics and teaching mathematics. Siméon Poisson

Math 100C
Syllabus
Fall, 2013

Senior Lecturer: Mrs. Susan Riner
Office: 120B Pierce hall
Phone: 784-8316

Text: Algebra and Trigonometry by Keedy/Bittinger, 6th edition

Purpose: This course is designed to review algebra, trigonometry, exponential and logarithmic functions in order to prepare students for Math 110A. Math 100C will provide each student with an opportunity to increase his or her proficiency in and understanding of the basic concepts of Algebra, graphing, solving equations and systems of equations, and basic trigonometry.

Goals and Objectives: Students should - without the aid of a calculator – demonstrate the following: proficiency in algebraic and trigonometric calculations, graphing lines, parabolas, absolute values, hyperbolas, circles, sine and cosine curves, logarithmic and exponential functions; retention of algebraic and trigonometric formulas; understanding of basic concepts, rules, and theorems in algebra and trigonometry.

Attendance: Students are expected to be on time and attend all classes and are responsible for all material covered in class as well as any changes made in the attached schedule regarding topics, homework, quizzes, and test dates. **Attendance and consistent preparation for class will determine the success or failure the student realizes in this course.**

Religious Holidays: Missing classes, tests, assignments, etc. due to observance of religious holidays should be worked out *in advance* with the professor.

Homework: Homework problems will not be collected but are assigned to benefit you. You will need to study 2-3 hours outside of class for every hour spent in class. It is important that you attempt all homework assignments and seek help from the professor or from the tutors available in the Math Center when necessary.

Tutoring: Student tutors are scheduled for a limited amount of time per week in the afternoon and evening in the Mathematics Center in Pierce Hall. You may want to consult tutors if you are having trouble with any of the class material. Tutoring schedules are posted on the Oxford web page, on Blackboard, and in the Mathematics Center.

Honor Code: **The Honor Code of Oxford College applies to all work submitted for credit. You will pledge with your signature that the work you submit for credit is yours and yours alone.**

Assessment Procedures: Tests and quizzes will be given during class time. If any student needs special accommodations, the appropriate paperwork should be turned in to the professor and arrangements made prior to the first graded assignment. There is no provision for making up tests. **If a student has a note from a doctor or a documented family emergency**, that student may use the appropriate portion of the final exam as a replacement for the missed test. The lowest quiz grades will be dropped. Therefore, **there is no provision for making up a quiz**.

A STUDENT MUST MAKE 70% OR ABOVE ON THE FINAL EXAM IN ORDER TO PASS MATH 100C.

Points will be distributed as follows:

4 Tests	400 points
Quizzes	100 points
Final Exam	200 points
Total	700 points

Letter grades will be assigned as follows:

A (90% - 100%):	630-700 points
B (80% - 89%):	560-629 points
C (74% - 79%):	518-559 points
D (70% - 73%):	490-517 points
F: Below 490 points	

Note: Student work submitted as part of this course may be reviewed by Oxford College and Emory College faculty and staff for the purposes of improving instruction and enhancing Emory education.

Math 100 - Topics

Wed., Aug. 28	1.2 - Exponential Notation
Fri., Aug. 30	1.3, 1.4 - Algebraic Operations
Mon. Sept. 2	Labor Day Holiday
Wed., Sept. 4	1.5 - Factoring
Fri. Sept.6	1.6 - Rational Expressions
Mon. Sept 9	1.7 - Radical Expressions
Wed., Sept. 11	1.8 - Rational Exponents
Fri., Sept. 13	2.1, 2.2 - Solving equations, Rational equations
Mon., Sept. 16	2.5 - Quadratic Equations
Wed., Sept. 18	2.6 – Area, Volume, Motion Problems
Fri., Sept. 20	2.6 – cont.
Mon. Sept. 23	Review
Wed., Sept. 25	**Test 1**
Fri., Sept. 27	2.7, 4.2, 4.3 - Radical Equations, Absolute Value
Mon., Sept. 30	2.8 – Equations Reducible to Quadratic
Wed., Oct 2	3.1 – Graphs, half parabolas, semicircles
Fri., Oct. 4	3.2 – Distance Formula, Circles
Mon., Oct. 7	3.3 - Functions
Wed., Oct. 9	3.4, 3.5 – Lines
Fri., Oct. 11	3.7 – Combinations of Functions
MT, Oct 14,15	Midsemester Break
Wed., Oct. 16	Graphing Piecewise-defined functions
Fri., Oct. 18	3.8 - Transformations
Mon., Oct. 21	Review
Wed., Oct. 23	**Test 2**
Fri., Oct. 25	4.1 – Quadratic Functions
Mon., Oct. 28	4.1 – cont.
Wed., Oct. 30	5.2 – Exponential Functions
Fri., Nov.1	5.3 – Logarithmic Functions
Mon., Nov.4	5.4 – Properties of Logarithmic Functions
Wed., Nov. 6	5.7 – Solving Equations/Natural Logs
Fri., Nov. 8	Review
Mon., Nov. 11	**Test 3**
Wed., Nov. 13	6.1, 6.2 - Unit Circle, Sine and Cosine
Fri., Nov. 15	6.3 - Trigonometric Functions
Mon., Nov. 18	6.4, 6.5 - Angles and Rotations, Triangle Trigonometry
Wed., Nov. 20	6.7 – Trigonometric Graphs
Fri., Nov. 22	7.5 – Trigonometric identities
Mon., Nov. 25	7.8 – Trigonometric Equations Functions
W-F, Nov. 27-29	Thanksgiving Break
Mon., Dec.2	Review
Wed., Dec. 4	**Test 4**
Fri., Dec., 6	7.6 – Inverses of Trigonometric Functions
Mon., Dec. 9	Exam Review