

Math 100C – Introduction to College Math

Syllabus for Fall, 2006

Location: Seney Hall 208
Time: MWF 2:00-2:50 PM
Lecturer: Paul Oser
Office: 122A Pierce
Phone: 770-784 4655

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

Purpose: This course is designed to prepare students for Math 120 (Geometry), Math 107 (Statistics), and Math 110A (Calculus). If credit is received for Math 110A, the 2-hour credit for Math 100C will be deleted. Only those students making an A or high B in Math 100C should take 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, combinatorics, probability, and basic trigonometry. You may not drop Math 100C after September 6th.

Goals and Objectives: Students – 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; rules of probability, and methods of counting; retention of algebraic and trigonometric formulas; understanding of basic concepts, rules, and theorems in algebra, trigonometry, probability, and counting.

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. 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.

Tutoring: Student tutors are scheduled for a limited amount of time per week in the evenings. You may want to consult tutors if you are having trouble with homework problems. Tutoring schedules are posted in the Seney Hall classrooms and mathematics offices.

Labs: There will be four Math 10C labs. During these labs, students will work in groups on problems related to the material currently being covered in class. Students may use textbooks, calculators, and class notes. Each group will turn in one lab and receive one grade. Attendance is mandatory. Since lab assignments are to be done as a group rather than individually, **there is no provision for making up a missed lab.**

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.

Cell phones and PDAs should be turned off and put away during class.

Assessment Procedures: Tests will be given on Tuesdays during the lab period. Quizzes will be given during class time. Labs not used for tests will be used for graded group assignments. Each test should be passed with 70 points or more with provisions made for one re-test per section. 70 will be the highest grade given on a re-test. If any student needs special accommodations, the appropriate paperwork should be turned into 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 take the re-test.

There will be an undetermined number of quizzes given throughout the semester. The quizzes need not be announced ahead of time. The lowest quiz grade will be dropped. The average of all of the remaining quizzes will be used to determine how many of the 100 points for quizzes you earn toward your overall grade. For example, if you had an average of 90% on your quizzes, then you would receive 90 points toward your final grade. Since the lowest quiz grade is dropped, **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	100 points each	400 points
4 Labs	25 points each	100 points
Quizzes	100 points total	100 points
<u>Final Exam</u>	<u>200 points total</u>	<u>200 points</u>
Total		800 points

Grades will be assigned as follows:

A (90-100):	720-800 points
B (80-89):	640-719 points
C (74-79):	592-639 points
D (70-73):	560-591 points
F:	Below 560 points

Math 100C – Topics and Schedule*

Wed, Aug 30	1.2 – Exponential Notation
Fri, Sept 1	1.3, 1.4 – Algebraic Operations
Mon, Sept 4	Labor Day Holiday
Wed, Sept 6	1.5 – Factoring
Fri, Sept 8	1.6 – Rational Expressions
Mon, Sept 11	1.6 – Rational Expressions (cont.)
Tues, Sept 12	Lab I
Wed, Sept 13	1.7 – Radical Expressions
Fri, Sept 15	1.8 – Rational Exponents
Mon, Sept 18	Review
Tues, Sept 19	Test I
Wed, Sept 20	2.1 – Solving Equations
Fri, Sept 22	2.2 – Rational Equations
Mon, Sept 25	2.5 – Quadratic Equations
Wed, Sept 27	2.7 – Radical Equations
Fri, Sept 29	2.8 – Equations Reducible to Quadratic
Mon, Oct 2	3.1 – Graphs
Tues, Oct 3	Lab II
Wed, Oct 4	3.2 – Distance, Circles
Fri, Oct 6	3.3 – Functions
Mon, Oct 9	Mid-semester Break
Tues, Oct 10	Mid-semester Break
Wed, Oct 11	3.4 – Lines
Fri, Oct 13	3.7 – Combinations of Functions
Mon, Oct 16	Review
Tues, Oct 17	Test II
Wed, Oct 18	3.8 – Transformations
Fri, Oct 20	4.1 – Quadratic Functions
Mon, Oct 23	4.2, 4.3 – Absolute Value, Interval Notation
Wed, Oct 25	5.2 – Exponential Functions
Fri, Oct 27	5.3 – Logarithmic Functions
Mon, Oct 30	5.4 – Properties of Logarithmic Functions
Tues, Oct 31	Lab III
Wed, Nov 1	5.7 – Solving Equations / Natural Logs
Fri, Nov 3	6.1, 6.2 – Unit Circle, Sine and Cosine

Mon, Nov 6	Review
Tues, Nov 7	Test III
Wed, Nov 8	6.3 – Trigonometric Functions
Fri, Nov 10	6.4 – Angles and Rotations
Mon, Nov 13	6.5 – Triangle Trig
Wed, Nov 15	6.7 – Trigonometric Graphs
Fri, Nov 17	6.7 – Trigonometric Graphs (cont.)
Mon, Nov 20	11.5 – Fundamental Counting
Wed, Nov 22	Thanksgiving Break
Fri, Nov 24	Thanksgiving Break
Mon, Nov 27	11.5 – Permutations
Tues, Nov 28	Lab IV
Wed, Nov 29	11.6 – Combinations
Fri, Dec 1	11.7 – Binomial Theorem
Mon, Dec 4	Review
Tues, Dec 5	Test IV
Wed, Dec 6	11.8 – Probability
Fri, Dec 8	Exam Review
Mon, Dec 11	Exam Review

** The schedule is subject to change at any time by the instructor*