MATH 121 SYLLABUS FALL 1997

Lecture	Time	Room	Instructor	Office	Phone	Call No.
MWF	8	LC-D5	Stinespring	624 SEO	3-0368	61306
MWF	9	LC-E1	Baldwin	417SEO	3-2149	61231
MWF	9	LC-D4	Gray	508 SEO	6-4828	31494
MWF	2	LC-D4	Tartakoff	516 SEO	6-2440	61440
MWF	3	LC-F4	Libgober	413 SEO	3-2138	61370

Course coordinator: Tartakoff

TEXT:DEMANA, WAITS, CLEMENS AND FOLEY, PRECALCULUS: Functions and Graphs (Addison Wesley. Third edition.) This text has much more explanation than many others for similar courses. You are expected to read the text. There will be questions in recitation based on the reading as well as the lecture. To provide two opportunities for understanding the trigonometry, we begin the course with elementary trigonometry (Chapter VI) and then return to Chapters VI, VII, and VIII late in the semester.

GRAPHING CALCULATORS: All lectures use graphing calculators. All students must bring to class each day a graphing calculator such as the TI-83. Students who present proof of registration in one of these sections to the Electronics desk of the UIC bookstore will be able to purchase the a TI below list price.

PREREQUISITE: A grade of C or better in Math 101 (quarter course), or Math 120 (semesters), OR adequate performance on the UIC placement examination. Credit for college algebra, trigonometry, or precalculus at another institution is not a sufficient prerequisite. You must pass the UIC placement examination with a score of at least 551. During the first week of class letters will be passed out to those students who do not meet the prerequisites explaining their deficiency. Those students who receive a letter will be dropped from the course unless they provide me with reason for an exemption.

GRADES: Grades will be based approximately 15% on each of three midterms, 40% on the final and 15% on homework, class participation, and quizzes. An INcomplete grade is given only for documented hardships that occur at the time of the final.

ASSIGNMENTS: The material to be covered in each lecture and the homework assignments are listed below. You are expected to read the assignment before the lecture. The prerequisite chapter (pages 1-56) will not be explicitly covered in class but you are responsible for reviewing it as needed. The homework assignment for each week is due Tuesday of the following week in your recitation section. An assignment of problems x-y means do x through y inclusive. All assignments are from the "Exercises", not the "quick review".

ABSENCES FROM QUIZZES AND EXAMS, MISSED HOMEWORK: The lowest two homework scores and the lowest two quiz scores will be dropped. All other missed homework, quizzes and exams will receive a grade of zero. The only exceptions will be for medical emergencies and then only with PRIOR notification of the instructor. Note that messages may always be left with the Department office - 6-3041.

MSCS POLICY ON INCOMPLETE GRADES: The last day to drop the course without penalty is September 5. INcomplete grades are for hardships that occur at the time of the final. IN grades must be approved by the Department. IN grades should be made up during the first two weeks of the next semester. Students may not sit through the course a second time. Students with problems which began after the drop date and continued to interfere with studies throughout the term should see their Dean for a late withdrawal.

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WK	DATE	SEC	PAGES	HOMEWORK	SUBJECT
1	Aug 25	6.1	391-402	1-4,37-40,47-50,63,64,77,78 1234567	Angles, radians, other
	Aug 27	6.2	402-411	1-6,12-15,34,35,45-46,71,72,83,84,86	Trig. functions
	Aug 29	6.3	414-427	3-6,15-18,25-28,30-32,43-44, 75,76, 85,86	Reference angles, circular functions
2	Sept 1	Labor Day			
	Sept 3	6.8	467-473	3-6,27,28,31,32	Applications
	Sept 5	1.1	57-67	7, 25-28,35	Representations of Problems
		1.2	67-75	4. 11,12,39,40,45, 46	Functions
3	Sept 8	1.3	79-94	1-4, 10,22-24,58,61, 62,66,67,74	Linear functions
	Sept 10	1.5	106-119	4,11,12,21-24,29-31, 41-44, 48,53-54	Graphs and Functions
	Sept 12	2.1	137-144	1,2,37-40,44, 47	Graphical soln.
		2.2	145-155	25-27,29,53-55,64-66,73	Algebraic soln;
4	Sept 15	2.3	158-171	7-10,25,26,31-34,47-50,68	Abs. value, radicals, ineq.
	Sept 17	2.4	171-181	5-8,17-20,37,44	Combining functions
	Sept 19	Review for first exam (through 2.3)			
5	Sept 22	FIRST EXAM		6.1-6.3, 6.8,1.1-2.3	
	Sept 24	2.6	188-199	9-14,33-35,43-46,49,50,63,75-78,81	Graphs and transformations
	Sept 26	2.7	200-207	4,5,7,17,18,20,23,56-58	Inverse functions
6	Sept 29	3.1	213-224	7-10,21,22,28,43-46,52,60,69	Quadratics
	Oct 1	3.2	224-237	4,5,33-36.45,50,67,68	Higher degree polynomials
	Oct 3	3.3	237-247	1,9,10, 21,24,31,32,34,35, 47,48	Factor Theorem
		3.4	249-262	31-33, 46-50	Real zeros
7	Oct 6	3.5	262-269	7-10,23-26,36-38,53-56	Complex numbers
	Oct 8	3.6	269-279	1,2,8,9,13-16,27,28,45,46,49,51-54	Fundamental Theorem
	Oct 10	4.1	285-297	13-20,47-49,54,55	Exponential vs. power funs
8	Oct 13	4.2	298-309	15-18,35-38,49,50,	Logarithms
	Oct 15	4.3	309-318	7-12,35,36,49-52,64-66	Properties of Logarithms
	Oct 17	4.4	318-329	5-10, 21-26,39,40,47,48	Equation solving
		4.5	329-342	4-6,20,21	Interest
9	Oct 20	5.1	347-358	9-14,23-26,35,36,47,48	Rational fns I
	Oct 22	5.2	358-365	1,2,12-14,31-34	Graphing Rational fns $n \leq m$
		5.3	365-373	9-11,16,27.28	Graphing Rational fns $n > m$
	Oct 24	5.4	373-382	14-18,33-38	Rational Equations and Inequalities
10	Oct 27	SECOND EXAM Chapters 2.4 through 4			
	Oct 29	6.3	442-450	3-6,13-16,19-23,33,45	Return to Trig
	Oct 31	6.4	429-441	3-6, 17-22, 27-30,44-47,60	Graphs of sin, cos

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11	Nov 3	6.5	442-450	3-6,13-16,19-23,33,45	Other trig functions
	Nov 5	6.6	451-458	3,4, 7,8,39-41,	Adv. Trig. graphs
	Nov 7	6.7	459-467	1-4,19,20,37-42,47,48	Inverse Trig functions
12	Nov 10	7.1	483-489	3-10,18, 19, 39-42,59	Trig Identities.
	Nov 12	7.2	489-495	5-9,51,57	More identities
	Nov 14	7.3	495-503	5-10,32-3649,50,55,56	Solving trig equations
13	Nov 17	7.4	503-511	1,2, 9-12,31-34,45,46	Sum and difference
	Nov 19	7.5	511-519	3-6, 23,24,47,50	Mult angles
	Nov 21	8.3	545-553	5,6,11-16,21,22,29,30,37,38,43	Vectors
14	Nov 24	THIRD EXAM Chapters 5, 6, 7			
	Nov 26	8.4	554-559	5-10,19-24, 36.37,43,44,49	Trig form of complex nos
15	Dec 1	8.5	559-565	1-4,17-20,25,25,33,35	n^{th} roots –deMoivre
	Dec 3	8.1	523-531	3-5,22,23,27,28,37,40,32	Law of Sines
	Dec 5	8.2	534-543	3-6,17,29,32,33,38,40,41	Law of Cosines

Combined Section Final Exam
Thursday Dec 11, 6-8 PM; Room to be Announced