Chaminade University of Honolulu 2002 Spring Term January 14-May 10, 2002 Course: Math 103-3 College Algebra Location: N227 Time: 9:30-10:50 TR Instructor: Dr. James W. Miller Communications: Office: 735-4811 Home: (808)521-1634 55 South Kukui Street #1908 Honolulu, HI 96813 email: jmiller@chaminade.edu email: JWMILLER27@aol.com Office Hours: 10:30-12:00 MWF Additional times by appointment Gustafson, R. David and Frisk, Peter D. I. Textbooks (Req): Algebra for College Students, Sixth Edition Pacific Grove, CA: Brooks/Cole Publishing Co., 2002 II. Textbooks (Rec): TBD III. Other Requirements: Notebook. Scientific Calculator recommended. Algebra knowledge and skills for college studies: Sets and real number system; IV. Course Description: exponents and polynomials, rational and radical expressions; equations and inequalities with applications, including equations containing rational or radical expressions and systems of equations; beginning analytical geometry and functions; exponential and logarithmic functions; and other selected topics including Sigma notation, the binomial theorem, limits, matrices and probability. Fulfills Track B general Education requirement in mathematics The intent of the course is to provide for students the opportunities V. Course Intent: to build foundations of the principles of algebra, which may assist them in growing their academic backgrounds and building their areas of specializations. VI. Course Objectives: A. For each of the topics in the required textbook, gain a working understanding appropriate to an academic background and to fields of specialization. 1. Basic concepts and properties of the Real Number System. Linear and quadratic equations/inequalities.
The rectangular coordinate system/lines in the xy-plane.
Systems of linear equations/solution sets. 5. Polynomials--factoring, Aunctions and processes. 6. Rational expressions--processes and equations. 7. Radicals and rational exponents. 8. Quadratic Functions and Inequalities. 9. Functions and operations. 10. Exponential and logarithmic functions. 11. Solving polynomial equations. 12. Conic sections. 13. Selected topics

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	2002 Spi	ersity of Honolulu ring Term May 10, 2002			
	-	ojective is to provide for each student the repertoire of afficient to score well above the mean in such tests as			
	the concepts of al	bject is to provide for each student a command over gebra and the algebraic skills suitable for further vanced topics in mathematics.			
	awareness of the	bjective is to provide each student with an implications of the principles of mathematics to es that occupy the national and international			
VII. Course Format:	Each class session will cor				
	Current assigned	topic, previous topics, and			
	Problem solving				
	The fundamental components of each the first eight chapters are typically covered in classes like Math 102. However, the more demanding treatments that can determine success in more advanced classes are reserved for this class. Students should study accordingly.				
	The pace of the course and the intensity of some topics will test us all. Students are expected to develop and exercise their own skills of problem solving in all class activities. The guidance a teacher can provide makes the most sense if students attend classes. The growth that each student can experience depends upon his or her own exertions. Hopefully, we will find a proper balance during our time together. JWM				
VIII. Requisite:					
IX. Prerequisite:	Passing of Math 102, dem consent of the instructor.	onstrated skills through placement tests, or			
X. Course Requirements:					
	Attendance Participation Homework Quizzes Problem Sets Two one-hour exams				
		y 6, 2002, 8:00 - 10:00 am)			
XI. Grading System:					
	Attendance/				
	Participation/ Homework:	10%			
	Chapter Quizzes Problem Sets	30%			
	First Hour Exam	15%			
	Second Hour Exam	15%			

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Chaminade University of Honolulu 2002 Spring Term January 14-May 10, 2002

Final Exam

30%

Total for Final Grade 100%

Grading Scale:

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Α	90-100 %	Outstanding scholarship and excellent intellectual initiative with the coursework.
В	80-89%	Superior quality done in a consistent intellectual manner with the coursework
С	70-79%	Satisfactory grade showing competent understanding of the course work.
D	60-69%	Lowest passing grade but not sufficient to fulfill prerequisite work.
F	59% and lower	Unsatisfactory understanding of the coursework.; no credit given.
I		Grade is not automatic. Grade deferred
		because student did not complete work because of circumstances beyond his control. Student must enter into a contract with the instructor to complete work time certain.

XII. Timetable/Assignments/Schedule (Attached).

Chaminade University of Honolulu Spring 2002 Math 103-3

	Date	Торіс	Ch			Sec	
	T 01/15	1. Basic concepts	1	1	80	1, 2, 3	
	Th 01/17	Real Number System	1			4, 5	
3	T 01/22		1			6, 7	
-	Th 01/04	0 T:		65	145	1 0 0	
	Th 01/24	2. Linear and quadratic	2	05	145	1, 2, 3	
<u> </u>	T 01/29	eqns/inequalities	2			4, 5	
6	Th 01/31	3. The rectangular	3	55	200	1, 2, 5	
	T 02/05	coordinate system	3		200	3,4	
	1 02/05					J, T	· · · · · · · · · · · · · · · · · · ·
8	Th 02/07	4. Systems of linear	4	53	253	1,2	
9	T 02/12	eqns/solution sets.	4			3, 4	
							· · · · · · · · · · · · · · · · · · ·
10	Th 02/14	5. Polynomials	5	70	323	1, 2, 3	
		factoring, funct, proc					
	FIRST HOUR E	XAM (CH 1-4)				Sec. 2	
11	T 02/19		. 5	•		4, 5, 6	
12	Th 02/21		• 5			7, 8	ŕ
				*		1 . L	5 A.
	Т 02/26	6. Rational expressions	6	75	398	1, 2, 3	
14	Th 02/28	proc and equations	6			4, 5	
15	T 03/05	······································	6			6, 7	
16	Th 03/07	7. Radicals and .	7	60	458	1, 2, 3	
	T 03/12	rational exponents	7			4, 5, 6	
-1/	1 05/12	Tational exponents	+'			4, 3, 0	
18	Th 03/14	8. Quadratic Functions	8	54	512	1, 2, 3	
	T 03/19	and Inequalities	. 8			4, 5	
	SECOND HOUR	R EXAM (Ch 5-8(
20	Th 03/21	9. Functions and	9	59	571	1, 2, 3	
	Spring Break						
	T 04/02	operations.	9			4, 5, 6	
	Th 04/04	10. Exponential and	10	62	633	1, 2, 3	
23	T 04/09	logarithmic functions.	10			4, 5, 6	
24	Th 04/11	11. Solving poly eqns.	11	35	660	1, 3, 4	· · · · · · · · · · · · · · · · · · ·
24	111 04/11	11. Solving poly equis.	11	33	000	1, 3, 4	
25	T 04/16	12. Conic sections.	12	53	721	1, 2, 3	
26	Th 04/18	•	12			4, 5	
27	T 04/23	13. Selected topics	13	67	799	2, 3, 4	
	Th 04/25		13		/00	2, 3, 4 6, 7	
	T 04/30	···,	15		I	Review	-
	Th 05/02		┨	· (Review	
JV	111 03/02	Monday, May 6, 2002, 8:00 - 1				TCAICM	

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