

**Chaminade University of Honolulu**  
**Summer Session II July 5 - August 15**  
**104 Henry Hall**

AM SS II 100  
**DRAFT**

- Course:** MA103: College Algebra
- Time:** M-F 11:20 - 12:50
- Instructor:** Dr. Roger Taylor
- Communications:** Email: students\_rlt\_phd@hotmail.com
- Textbook:** Algebra for College Students (5<sup>th</sup>) Edition, by R. David Gustafson & Peter D. Frisk, 1999. Brooks/Cole Publishing Co., Pacific Grove, CA

**Course Description**

Algebra knowledge and skills for college studies: Sets and real number system, exponents and polynomials, rational and radical expressions, equations and inequalities with applications, including equations containing rational and radical expressions, systems of equations, beginning analytic geometry and functions, exponential and logarithmic functions

**Objectives**

1. To give the student a firm foundation in the fundamentals of Algebra.
2. To prepare the student for entry into MA110 Precalculus.
3. Emphases are: Skills in manipulating algebraic expressions (polynomials, rational expressions, radical expressions), in solving equations and inequalities, basic concepts of functions, including exponential and logarithmic functions.

**Teaching Philosophy:**

Responsibility for **your** learning rests solely on **you** the student. **You** have to do the classwork, **you** have to ask the questions, **you** have to do the homework, and **you** have to perform on quizzes and tests. I am only a guide and record keeper. **You** are also responsible for knowing or **updating** **yourself** on all prerequisite information.

**Topics to Cover**

- |                         |  |
|-------------------------|--|
| Chapter 1: Review       | Chapter 7: 7.1-7.6                         |
| Chapter 2: 2.1-2.4      | Chapter 8: 8.1, 8.4                        |
| Chapter 3: 3.2, 3.3     | Chapter 10: 10.1-10.5                      |
| Chapter 4: 4.1, 4.2     | Chapter 11: 11.1                           |
| Chapter 5: 5.1-5.8      | Chapter 13: 13.1, 13.2                     |
| Chapter 6: 6.1, 6.3-6.7 | Other sections and topics as time permits. |

## Format:

We will adjust as we go along, starting with two 40 minute sessions each day with a 10 minute break in between. I will lecture, demonstrate problems and good technique for writing solutions, assign problems to be worked at your seat/chalkboard and circulate to get feedback and help you on your seatwork. Students will be asked to present solutions on the chalkboard. We will have daily quizzes and weekly tests, as well as a comprehensive final exam in the last week.

## Homework:

**Hand in:** Specifically assigned to be handed in and graded at the next class session. Late homework will be penalized 20% per day.

**Notebook:** This is your practice work to follow each lesson. Put this work in a loose-leaf notebook. I will make assignments that you will be responsible for. You should also include examples from Chapter Summaries and Chapter Tests even if I don't assign them as your quiz and test questions will be similar to these. Check your answers as you go along. I will check this notebook periodically.

## Attendance:

Absence from any class session is especially detrimental to a student and should not be taken lightly. Missed instruction is a recipe for lowering your grade. If excessive, it makes passing the course difficult, if not impossible. If a test is missed because of an unavoidable and verifiable reason, see the Instructor immediately (Beforehand is preferable.) Makeup may be allowed, at the sole discretion of the Instructor

## Evaluation:

Your grade will be based on the following:

90-100	A	All tests	40%
80 - 89	B	All homework and quizzes	25 %
70 - 79	C	Class participation and notebook	10%
60 - 69	D	Final exam	25%
0 - 59.5	F		

## Learning Outcome Assessment:

- \*Knowledge of the subject matter from the textbook, media articles, class lectures, discussion.
- \*Ability to present a short discussion on a mathematical topic.
- \*Ability to apply mathematical ideas to current issues in society.
- \*Clarity and logical presentation.
- \* Well written solutions to all problems. (Show your work, know the methods)