

SYLLABUS FOR MATH 402 – Prealgebra

Class Hours:	T Th 9:40 – 12:20 PM	Name:	Dr. Yu-Chung Chang
Classroom:	R104	Office:	R 322 # I
Section No:	0993	Phone:	(626) 585-7658
		E-mail:	yxchang@pasadena.edu
Units:	4 units	Office Hours:	T Th 9:00-9:30 in D300 T Th 2:30-3:00 in V103 T Th 3:00-4:15 in R321 I M W 12-12:30 in R321 I

Course Description: Modern Concepts in prealgebra; basic operations with whole numbers, integers, rational and irrationals; structure of the real number system; the metric system; equations.

Textbook: A Blue Print for the Foundation of Algebra by MIND Research Institute
Final Exam: Tuesday, Dec 15, 10:15 A.M. - 12:15 P.M.

Students Learning Objectives

1. Perform operations on real numbers and basic algebraic expressions without the use of a calculator.
2. Apply and follow the mathematical principles, operations and strategies to solve linear equations.
3. Model and solve real-world applications involving mathematical principles operations and strategies.
4. Develop higher brain functions for Spatial-Temporal reasoning in doing mathematics (**ST Math** by MIND Research Institute and **AR system** by Turning Technology, Inc)

Courseware:

www.pcc.blackboard.com

- **Browser Check:** Before logging in, it is highly recommended that you perform a browser check to see if your computer is properly configured to use the Blackboard Learning System.
- **Login:** Username is your “Network ID” **and password is your “PIN number.”** If you forgot them, follow the direction on the screen to retrieve them from your PCC Lancer account.
- **Java Security Certificate:** After logging in to the Blackboard Learning System, you will be prompted to accept a Java Security Certificate. You must click **Yes** or **Always** to ensure that Learning System functionality using Java will work properly in your browser.
- **Tools and Materials:**
 1. Communication: email, discussion board, and journal entry
 2. Assessments: quizzes and tests.
 3. Assignments: homework, journal entries, and extra practice sheets

Requirements

Attendance:

- Due to the special tools (clicker system) we use of this course. Your “attendance” will be counted towards your grades.

- If you absent more than 3 class period, please verify before returning to the class to make sure that you are not dropped from the class.

Grading System

Grading scales: 90 - 100 = A 80 - 90 = B 70 - 79 = C 60 - 69 = D 59 and below = F

You will earn your grade points through the performance in the following areas:

(1) Homework: 15%

- A. *Cognitive Training:* ST Math games-ARCC (Algebra Readiness Community College)
 - Students will have opportunity to play the games at the computer Lab during the class time or at home after class.
 - Each student will have a unique login name and password
- B. *Written homework:*
 - The written homework is done on paper and turn in each week as in the traditional classes.
 - All the problems from your problem sets are to be completed by the end of the semester.
 - Written homework is due on the next class time. Grades are recorded in a grading sheets
- C. *Math journal entry:*

Journal questions are included in your homework sets and submitted through online journal entries. All entries are in the discussion formats.
- D. *Class work:*

Class work is done in groups or individual. Assignments include Mid- and End-Chapter Quizzes or Warm Up exercises.

(2) Assessments:

- A. *Quizzes: 5%*
 - *Written Quiz:*
 - *Clicker Quiz after each concept:*

These are quizzes administered during each presentation right after each concept is explained to assess students' understanding.
- B. *Online Tests: 5%*

Online Diagnostic Tests and Online Practice Tests
- C. *Chapter Tests: 60%*

Chapter Tests take place in class or online. Each student is allowed to take one makeup chapter test if a good reason with proof is given.
- D. *Final Exam: 15%*

There is one award for this class. If you complete all the assignment and achieve 95% or above on all your test scores, your final exam would be waived.