

**IMPERIAL COMMUNITY COLLEGE DISTRICT
IMPERIAL VALLEY COLLEGE**

COURSE OUTLINE

DIVISION: Science, Mathematics, and Engineering **DATE:** May 2007

COURSE TITLE: General Mathematics Review **COURSE NO.:** MATH 800 **UNITS:** Noncredit

LEC HRS.: 60 **LAB HRS.:** **HRS.:**

If cross-referenced, please complete the following

COURSE NO.(s) _ COURSE TITLE

I. COURSE/CATALOG DESCRIPTION:

This course is designed to give students a review of general mathematics concepts and test-taking skills, including arithmetic, geometry, algebra, and other topics. This will serve to prepare students to take mathematics assessments tests, general math reviews, and SAT preparation.

II. A. PREREQUISITES, if any:

B. COREQUISITES, if any:

C. RECOMMENDED PREPARATION, if any:

III. GRADING CRITERIA:

- Course must be taken on a "letter-grade" basis only.
- Course may be taken on a "credit" basis or for a letter grade.
- X Course must be taken on a "credit" basis only.

IV. MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR PASSING:

The student will be able to:

1. Demonstrate skills in basic ideas and concepts of arithmetic, including fractions, decimals, percents, ratios and proportions, and averages.
2. Demonstrate skills in operations of polynomials, solving equations, solving inequalities, word problems, and working with functions and their graphs.
3. Demonstrate skills in plane, solid, and coordinate geometry, including lines and angles, triangles, quadrilaterals, polygons, and circles.
4. Demonstrate skills in counting and probability, logical reasoning, and interpreting data.

V. CORE CONTENT TO BE COVERED IN ALL SECTIONS:

<u>CORE CONTENT</u>	<u>APPROX. % OF COURSE</u>
1. Arithmetic A. Basic arithmetic concepts B. Fractions and decimals C. Percents D. Ratios and proportions E. Averages	30%
2. Algebra A. Polynomials B. Solving equations C. Solving inequalities D. Word problems E. Functions and graphs	30%
3. Geometry A. Lines and angles B. Triangles C. Quadrilaterals D. Polygons E. Circles F. Solid Geometry G. Coordinate Geometry	25%
4. Other topics A. Counting and probability B. Logical reasoning C. Interpretation of data	15%
Total	100%

VI. METHOD OF EVALUATION TO DETERMINE IF OBJECTIVES HAVE BEEN MET BY STUDENTS: (check all that apply)

Essay _____ X _____	Class Activity _____ X _____	Written Assignments _____ X _____
Problem Solving Exercise _____ X _____	Final Exam _____ X _____	Oral Assignments _____ X _____
Skill Demonstration _____ X _____	Objective _____ X _____	Quizzes _____ X _____
Other _____ X _____		

VII. INSTRUCTIONAL METHODOLOGY: (Check all that apply)

Lecture _____ X _____	Discussion _____ X _____	Demonstration _____ X _____
Audio Visual _____ X _____	Group Activity _____ X _____	Lab Activity _____ X _____
Computer Assisted Instruction _____ X _____	Individual Simulation/ Assistance _____ X _____	Case Study _____ X _____

Two (2) hours of independent work done out of class per each hour of lecture or class work, or 3 hours lab, practicum, or the equivalent per unit. _____

Other _____X_____ **Online** _____X_____

VIII. TEXTBOOK(S) AND SUPPLEMENT(S):

Angel, Allen R. *Elementary Algebra for College Students: Early Graphing*, 3rd Edition. Upper Saddle River, NJ: Prentice Hall, 2008.

Green, Sharon and Wolf, Ira. *How to Prepare for the SAT*. 23rd Edition. Hauppauge, NY: Barron's Educational Series, Inc., 2006.

Lial, Margaret, et al. *Intermediate Algebra*, 10th Edition. Boston, MA: Addison Wesley, 2008.

Martin-Gay, Elayn. *Basic College Mathematics*, 3rd Edition. Upper Saddle River, NJ: Prentice Hall, 2006.

Princeton Review. *Cracking the SAT*. 2007 Edition. Princeton Review, 2006.