

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**CREDIT COURSE NOT APPLICABLE TO THE A.A. DEGREE**

(Use this form only for courses which do not apply to the A.A. Degree)

**COURSE NUMBER AND TITLE:** DR 020 - Pre-Algebra Support

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:** Appropriate Language Skills

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:** Provides programmed instruction on an individual and /or small group basis to students with disabilities. Practice in understanding and performing basic arithmetic tasks necessary for successful functioning in society.

**SPECIFIC COURSE OBJECTIVES:** The student will:

1. Demonstrate measurable progress in acquiring basis skill in math operations involving whole numbers, decimals, fractions, variable expressions, equations, ratio and proportion, percent, graphs, geometry, statistics and probability.
2. Develop specific learning strategies needed for success in mainstream Math 15.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

1. Whole numbers - place value, operations and applications.
2. Integers - operations, order of operations and applications.
3. Fractions - operations, applications, exponents, and complex fractions.
4. Decimals - value, operations, applications, radical expressions, inequalities.

5. Variable Expressions - properties, operations with polynomials, translation of verbal expressions.
6. Equations - solutions and applications.
7. Ratio and Proportion - analysis and application of rates and ratio, set up and application of proportion, direct and inverse variation.
8. Percent - conversion with fractions and decimals, percentage applications, percent of increase and decrease, consumer application.
9. Geometry - lines and angles, perimeter and area of plane geometric figures and composite figures, volume and surface area of solids and composite solids, similar and congruent triangles and The Pythagorean Theorem.
10. Graphs - reading and interpreting a variety of graphs, the rectangular coordinate system, graphing straight lines.
11. Statistics and Probability - the organization of data, statistical measures of mean, mode, and median and standard deviation.

**REQUIRED READING:**

Aufmann, Barker and Lockwood. Prealgebra. Houghton Mifflin Company. 1994.

**SUGGESTED READING:**

None

**REQUIRED WRITING:**

1. Learning contract.
2. Periodic self evaluations.

**OUTSIDE ASSIGNMENTS:**

None

**INSTRUCTIONAL METHODOLOGY:**

Check all that apply:

- lecture  
 laboratory  
 lecture-laboratory combination  
 directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes \_\_\_\_\_ No  X

**If yes, check all that apply.**

- \_\_\_\_\_ Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- \_\_\_\_\_ Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- \_\_\_\_\_ Two-Way Video Conferencing (Two-way interactive video and audio)
- \_\_\_\_\_ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- \_\_\_\_\_ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

- Credit/No Credit only.
- 50% Participation in class
- 25% Progress as measured on pre-and post-testing
- 25% Success in mainstream class

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  X  No \_\_\_\_\_ Number of times course may be taken for credit:  4

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

58161 - C2A

**CONTACT PERSON:** Patty Ricks, ext. 2598

<b>SIGNATURES ON FILE:</b>
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