

Las Positas College
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Course Outline for LRNS 119A

LEARNING SKILLS BASIC MATHEMATICS

Effective: Spring 2019

I. CATALOG DESCRIPTION:

LRNS 119A — LEARNING SKILLS BASIC MATHEMATICS — 2.00 units

Not offered in a long time

2.00 Units Lecture

Grading Methods:

Pass/No Pass

Discipline:

- Learning Disabilities: Specialist

	MIN
Lecture Hours:	36.00
Total Hours:	36.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Gain a greater confidence for solving math problems while overcoming anxiety
 1. Demonstrate mastery of basic mathematic operations which involve whole numbers to include fractions, decimals, percents, ratios and proportions and measurements
 2. Demonstrate through written and oral response an understanding of the basic problem-solving steps needed to solve word (situational) problems
 3. Define math vocabulary and explain the language of math as it pertains to problem-solving situations
 4. Develop a range of study skills to improve math learning, retention of information and needed ability to demonstrate knowledge

V. CONTENT:

- A. Assessment of current level of basic math achievement
 1. identify math learning style
 2. create of personalized program of study at individual skill level
- B. How to study and learn math
 1. importance of practice and repetition for fluency
 2. compensating strategies for areas of learning disability
 3. identifying sources of help
 4. importance of creating study tools
- C. Sources of math anxiety and strategies to compensate
- D. Review of whole numbers, number theory and basic operations
- E. Conceptualization of fractions
 1. factors and multiples
 2. review of operations with fractions
 3. ratios and proportions
- F. order of operations and principles of addition and multiplication
- G. Exponents
- H. Decimals and percents
 1. conversions
 2. appropriate use of each

VI. METHODS OF INSTRUCTION:

- A. **Demonstration** - Lecture and video presentations on various areas of arithmetic operations
- B. **Individualized Instruction** - Students will conduct self-paced study to be accompanied by individualized instruction from the instructor
- C. **Student Presentations** - Students will be assigned typical word problems and will need to make a formal presentation to the class on following the steps to solve it
- D. **Audio-visual Activity** - Extensive use of math instruction videos will be used so students can be exposed to various styles of instruction and methods of problem-solving
- E. Students will work in groups according to skill level and teach and support each other

VII. TYPICAL ASSIGNMENTS:

- A. Take a math learning styles inventory and complete a personal reflection paper identifying top two preferred modalities, corresponding strategies and how they can be applied to two areas of weakness.
- B. Practice homework given to the entire class as each topic area is covered
- C. Prepare a presentation (both visually and orally) that demonstrates to the class the steps followed to de-mystify and solve a word problem
- D. Complete at least 10 hours of self-paced work

VIII. EVALUATION:

Methods/Frequency

- A. Exams/Tests
- B. Quizzes
- C. Oral Presentation
- D. Class Participation
- E. Class Work
- F. Home Work
- G. Class Performance

IX. TYPICAL TEXTS:

- 1. Van Dyke, J., Rogers, J., Adams, H. *Fundamentals of Mathematics*. 10th ed., Cengage Learning, 2011.

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. A calculator for basic arithmetic. Colored pencils/pens