Lassen Community College Course Outline

DS 116 Developmental Skills: Math 0.5 - 1.5 Units

I. Catalog Description

An individualized program to improve the math skills of the learning disabled student. Emphasis will be placed on developing the student's skills for vocational competency or through the beginning algebra academic level, depending upon the student's goal. This course has been approved for online and hybrid delivery.

Does not transfer to UC/CSU
76.5 Hours Lab
Scheduled: Fall, Spring

II. Coding Information

Repeatability: Take 4 times
Grading Option: Pass/No Pass Only
Credit Type: Credit - Not Degree Applicable
TOP Code: 493032

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course the student will be able to:
Apply basic computational skills (addition, subtraction, multiplication and division) to solve mathematical problems involving percent, fractions, decimals, or algebraic and statistical problems.

B. Course Objectives

Upon completion of this course the student will be able to:

1. Solve a selection of addition, multiplication, subtraction and division problems.
2. Solve a selection of percentages, fractions and decimals problems.
3. Solve a selection of word problems, algebraic or statistical problems.

IV. Course Content

A. Whole Numbers
   1. Addition
   2. Subtraction
   3. Multiplication
   4. Division

B. Fractions
   1. Addition
   2. Subtraction
   3. Multiplication
   4. Division

C. Decimals
   1. Addition
   2. Subtraction
   3. Multiplication
   4. Division

D. Percent's
   1. Addition
   2. Multiplication
   3. Subtraction
   4. Division

E. Word Problems
   1. Recognizing and defining the problems
   2. Collecting the information
   3. Making logical deductions
   4. Scanning for information
   5. Seeing relationships
   6. Doing the computational skills required

F. Algebra
   1. Integers
   2. Variable, terms, expressions, square roots
   3. Equations/Graphs
   4. Polynomials
   5. Rational numbers
   6. Multiplying/Dividing
   7. Adding/Subtracting

G. Statistics
   1. Probability
   2. Frequency
   3. Distributions
   4. Confidence Intervals
   5. Means
   6. Correlations
   7. Variance

V. Assignments

A. Appropriate Readings
Textbook selections and/or online Canvas/ALEKS platform materials

B. Writing Assignments
None

C. Expected Outside Assignments
None

D. Specific Assignments that Demonstrate Critical Thinking
Solve Mathematical problems

VI. Methods of Evaluation

Traditional Classroom Evaluation
Assignments and Participation

Hybrid Evaluation
All quizzes and exams will be administered during the in person class time. Students will be expected to complete on-line assignments and activities equivalent to in class assignments and activities for the on-line portion of the course. Electronic communication, both synchronous and asynchronous (chat/forum) will be evaluated for participation and to maintain effective communication between instructor and students.

Online Evaluation
Same as face-to-face instruction including a variety of evaluation methods such as: research papers, asynchronous and synchronous discussions (chat/forum), exercises/assignments, online quizzes and exams, and postings to online website.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

☒ **Traditional Classroom Delivery** ☐ Correspondence Delivery

☒ Hybrid Delivery ☒ Online Delivery

Traditional Classroom Delivery
Individualized programmed instruction, which is prescriptive, based on previous assignments.

Hybrid Delivery
A combination of traditional classroom and online instruction will be utilized. Each semester a minimum of 17 hours will be taught face-to face by the instructor and the remaining hours will be instructed on-line through the technology platform adopted by the District. Traditional class instruction will consist of exercises/assignments, lectures, visual aids, and practice exercises. On-line delivery will consist of exercises/assignments, lecture posts, discussions, adding extra resources and other media sources as appropriate.

Online Delivery
Online instruction will be utilized through the technology platform adopted by the District with ALEKS. Online delivery will consist of participation in forum-based discussions and posts, web links, email communications, lecture posts, exams and online lectures. Adding extra resources and other media sources as appropriate.

VIII. Representative Texts and Supplies

Rasmussen, Key to Fractions, Curriculum Press, 1991, ISBN: 9781559531009
Rasmussen, Key to Decimals, Key Curriculum Press, 1985, ISBN: 9780913684139
Rasmussen, Key to Percents, Key Curriculum, 1993, ISBN: 9781559530897
King, Key to Algebra, Key Curriculum, 1990, ISBN: 9781559530880

IX. Discipline/s Assignment

Learning Disability Specialist, DSPS - Credit Instructor

X. Course Status

Current Status: Active
Original Approval Date: 5/22/1990
Revised By: Cindy Howe
Curriculum/Academic Standards Committee Revision Date: 10/05/2021