

CSKLS 362 Course Outline as of Summer 2021**CATALOG INFORMATION**

Dept and Nbr: CSKLS 362 Title: PROP & PER SKILLS

Full Title: Proportions and Percent Skills

Last Reviewed: 12/10/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	0.50	Lab Scheduled	1.50	1	Lab Scheduled	26.25
		Contact DHR	0		Contact DHR	0
		Contact Total	1.50		Contact Total	26.25
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 26.25

Title 5 Category: AA Degree Non-Applicable

Grading: P/NP Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: CSKL 300.3

Catalog Description:

This course is designed to prepare students for success in future courses and the workplace. Students will learn techniques for converting between percentages, fractions and decimals. Students will solve word problems involving proportions. All work will be completed in a lab setting.

Prerequisites/Corequisites:**Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: This course is designed to prepare students for success in future courses and the workplace. Students will learn techniques for converting between percentages, fractions and decimals. Students will solve word problems involving proportions. All work will be completed in a lab setting. (P/NP Only)

Prerequisites/Corequisites:

Recommended:
Limits on Enrollment:
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:
Not Certificate/Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Demonstrate mastery of the basic arithmetic operations involving fractions, decimals, proportions, and percents.
2. Analyze proportional relationships and use them to solve real-world and mathematical problems.
3. Use academic literacy skills to improve studying and learning.

Objectives:

At the conclusion of this course, the student should be able to:

1. Work flexibly between percents, decimals and fractions.
2. Use ratio and rate reasoning to solve real-world problems.
3. Compare and contrast different ways to find values in proportional relationships.
4. Use proportional relationships to solve multi-step ratio and percent problems.
5. Apply problem-solving skills to college classes, the workplace, and daily life situations.

Topics and Scope:

I. Ratio

- A. Definitions and essential characteristics of ratios
- B. Representing ratios and equivalent ratios
- C. Connecting ratio to fractions
- D. Ratio tables
- E. Double number line diagrams
- F. Percents as ratios
- G. Relating percents to fractions and decimals
- H. Solving problems with percents

II. Proportional Relationships

- A. Recognizing proportional relationships
 - B. Equations for proportional relationships
 - C. Correspondences among tables, graphs and equations of proportional relationships
- III. Mathematical Modeling and Applications such as:
- A. Commission
 - B. Income and sales tax
 - C. Appreciation and depreciation
 - D. Discount and mark up
 - E. Finance charge and interest
 - F. Similar figures

Assignment:

1. Lab Assignments (15 - 20)

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Lab assignments

Problem solving
50 - 70%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations
0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

None

Exams
0 - 0%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category
30 - 50%

Representative Textbooks and Materials:

Instructor prepared materials