

CSKL 402 Course Outline as of Summer 2025**CATALOG INFORMATION**

Dept and Nbr: CSKL 402 Title: MATH REVIEW B
 Full Title: Math Review B
 Last Reviewed: 12/12/2022

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	0	Lab Scheduled	2.75	2	Lab Scheduled	48.13
		Contact DHR	0		Contact DHR	0
		Contact Total	2.75		Contact Total	48.13
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 48.13

Title 5 Category: Non-Credit
 Grading: Non-Credit Course
 Repeatability: 27 - Exempt From Repeat Provisions
 Also Listed As:
 Formerly: CSKLS 402

Catalog Description:

This noncredit course is one of a set of courses designed to help students build a foundation in mathematics for future courses and the workplace. In this course, students will cover real numbers, exponents, and linear equations. Students will develop critical thinking skills and problem-solving strategies for future courses.

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

Description: This noncredit course is one of a set of courses designed to help students build a foundation in mathematics for future courses and the workplace. In this course, students will cover real numbers, exponents, and linear equations. Students will develop critical thinking skills and problem-solving strategies for future courses. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended:
Limits on Enrollment:
Transfer Credit:
Repeatability: Exempt From Repeat Provisions

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:

Certificate Applicable Course

COURSE CONTENT

Student Learning Outcomes:

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

1. Evaluate and/or interpret mathematical information, relationships, and/or concepts related to pre-algebra.
2. Apply the mathematical skills required in performing operations and/or problem-solving related to pre-algebra.
3. Communicate mathematical information symbolically, visually and/or numerically using appropriate terminology related to pre-algebra.

Objectives:

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

1. Use advanced computation skills in addition, subtraction, multiplication, and division (i.e. the four operations) with real numbers.
2. Interpret word problems involving one variable and set up linear equations to solve them.
3. Solve pre-algebra problems including simple linear equations with real numbers.
4. Evaluate and solve formulas.
5. Solve complex word problems involving multiple operations.

Topics and Scope:

I. Real Numbers

- A. Introduction to the number line, integers, rationals, absolute value, and inequalities
- B. Advanced skill development of the four operations as applied to the real numbers without a calculator
- C. Order of operations
- D. Translating words and phrases to set up and solve math expressions with real numbers
- E. Reading and interpreting charts, graphs, and tables (histograms, line graphs, bar graphs, and scatterplots)

- F. Mathematical modeling and applications
- G. Word problems with real numbers
- II. Exponents
 - A. Rules of exponents: zero exponent, product rule, quotient rule, negative exponents, and the power rule
 - B. Use of scientific calculator
 - C. Scientific notation
 - D. Square roots
 - 1. Rational and irrational solutions
 - 2. Application of the Pythagorean Theorem
 - E. Word problems involving exponents (exponential growth and decay)
- III. Algebra Expressions and Equations
 - A. Introduction to algebraic vocabulary: variable, constant, term, coefficient, degree, expression, equation, and polynomials
 - B. Simplifying and evaluating algebraic expressions
 - C. Solving linear equations
 - 1. Single-step equations (addition/subtraction or multiplication/division)
 - 2. Multi-step equations (addition/subtraction and multiplication/division)
 - 3. Equations with variables on both sides
 - 4. Equations with fractions, decimals, and percents
- IV. Academic Learning Skills
 - A. Self-assessment and goal setting
 - B. Study techniques
 - C. Support services, including:
 - 1. Tutorial center/learning center
 - 2. Student consultation hours
 - 3. Counseling

Assignment:

Lab activities/assignments (8-24)

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 Activities/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.