

CSKLS 742 Course Outline as of Fall 2023**CATALOG INFORMATION**

Dept and Nbr: CSKLS 742 Title: AC SKLS/GED PREP-MA/SC 2

Full Title: Basic Academic Skills & GED Prep - Math/Science 2

Last Reviewed: 11/28/2022

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	0	6	Lab Scheduled	0
		Contact DHR	4.00		Contact DHR	70.00
		Contact Total	4.00		Contact Total	70.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 70.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly:

Catalog Description:

This course is intended as the second level of instruction in Math Reasoning and Science and provides academic skills development for the Basic Academic Skills Certificate of Completion. Students will develop knowledge and skills needed to pass the Math Reasoning and Science subtests of the General Education Development (GED) or other High School Equivalency (HSE) tests.

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

Description: This course is intended as the second level of instruction in Math Reasoning and Science and provides academic skills development for the Basic Academic Skills Certificate of Completion. Students will develop knowledge and skills needed to pass the Math Reasoning and Science subtests of the General Education Development (GED) or other High School

Equivalency (HSE) tests. (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:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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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. Solve a variety of math problems including algebraic expressions, equations, inequalities, two-dimensional (2-D) and three-dimensional (3-D) geometry, equation of a line, basic statistics, probability, and functions.
2. Draw conclusions from a scientific text, understand the elements of experimental design and how to modify an experiment, and evaluate scientific conclusions.
3. Demonstrate academic skills including the use of basic technology for success in an academic environment.

Objectives:

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

1. Math
 - A. Evaluate algebraic expressions and solve linear equations and inequalities.
 - B. Use formulas related to shapes (2-D geometry) and objects (3-D geometry).
 - C. Apply concepts of linear equations to real-world problems.
 - D. Understand the concepts of median, mean, mode, range, probability, and statistics.
2. Science
 - A. Read and understand science texts, tables, charts, and graphs.
 - B. Draw conclusions from data.
 - C. Learn how to design and interpret science experiments.
3. Basic Technology
 - A. Navigate between computer learning programs.
 - B. Access and use college and GED testing systems for enrollment and other services.
4. Learning Skills
 - A. Demonstrate self-directed learning skills such as time management and personal

responsibility.

Topics and Scope:

Content, topics, and scope will vary, depending on student skill level

I. Math

- A. Expressions, equations, and inequalities
- B. Solving linear equations and inequalities
- C. 2-D geometry
- D. 3-D geometry
- E. The equation of a line
- F. Basic statistics
- G. Probability
- H. Understanding functions

II. Science

- A. Scientific information
- B. Designing an experiment
- C. Evaluating scientific investigations

III. Basic Technology

- A. Basic computer use and navigation among assigned software programs
- B. Access and use college and GED and/or other HSE test websites for enrollment and other services

IV. Learning Skills

- A. Self-assessment and goal setting
- B. Study techniques
- C. Test-taking skills
- D. Support services

Assignment:

1. Writing exercises, including comprehension, analytical, and inferential questions related to Math Reasoning and Science
2. Assessments, quizzes, and practice tests related to the Math Reasoning and Science components of the GED or other academic skills tests
3. Math and Science problem solving from textbooks and computer programs
4. Computer assignments, including:
 - A. Basic internet search
 - B. Navigation of educational websites

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.

Writing exercises

Writing 20 - 30%

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

Math and Science problem solving exercises

Problem solving
30 - 50%

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.

Assessments, quizzes, and practice tests

Exams
10 - 20%

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

Computer assignments

Other Category
20 - 30%

Representative Textbooks and Materials:

Kaplan GED Test 2022: Strategies, Practice, and Review. Caren, Van Slyke. Kaplan, Inc. 2022.
Instructor-prepared materials.