

CATALOG INFORMATION

Dept and Nbr: CSKLS 741      Title: AC SKLS/GED PREP-MA/SC 1  
Full Title: Basic Academic Skills & GED Prep - Math/Science 1  
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 first level of instruction in Math Reasoning and Science and provides academic skills development for the Basic Academic Skills Certificate of Completion. Students will develop the initial 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 first level of instruction in Math Reasoning and Science and provides academic skills development for the Basic Academic Skills Certificate of Completion. Students will develop the initial 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:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		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. Apply basic concepts of whole numbers, decimals, and fractions in analyzing and solving real-world problems.
2. Demonstrate comprehension of science basics and the scientific method by recognizing and evaluating evidence provided by reading investigations, tables, diagrams, and graphs.
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. Solve basic word problems with whole numbers and decimals.
  - B. Solve real-world problems using fractions and the four arithmetic operations.
  - C. Apply proportional reasoning concepts and techniques to solve problems.
  - D. Simplify expressions involving radicals.
  - E. Create or interpret informational charts, circle graphs, and bar graphs.
2. Science
  - A. Read and understand science texts, tables, charts, and graphs.
  - B. Draw conclusions from data.
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. Whole numbers and operations
- B. Factors and multiples
- C. Fractions, rates, and ratios
- D. Decimals and percent
- E. Exponents and roots
- F. Measurement
- G. Graphs and charts

### II. Science

- A. Basic scientific terminology
- B. Graphical data presentations
- C. Scientific Method

### 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
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Writing 20 - 30%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Math and Science problem solving exercises
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Problem solving 30 - 50%
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**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.