#### ADLTED 533 Course Outline as of Fall 2022

### **CATALOG INFORMATION**

Dept and Nbr: ADLTED 533 Title: AC SKLS/GED PREP/SCI 3 Full Title: Basic Academic Skills and GED Preparation--Science 3 Last Reviewed: 11/13/2017

Units		Course Hours per Week	N	br of Weeks	<b>Course Hours Total</b>	
Maximum	0	Lecture Scheduled	0	6	Lecture Scheduled	0
Minimum	0	Lab Scheduled	3.00	3	Lab Scheduled	18.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	18.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 18.00

Title 5 Category:Non-CreditGrading:Non-Credit CourseRepeatability:27 - Exempt From Repeat ProvisionsAlso Listed As:Formerly:

#### **Catalog Description:**

Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Third level of science course covers Physical Science, as determined through initial assessment.

**Prerequisites/Corequisites:** 

#### **Recommended Preparation:**

#### **Limits on Enrollment:**

#### **Schedule of Classes Information:**

Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Third level of science course

covers Physical Science, as determined through initial assessment. (Non-Credit Course) Prerequisites/Corequisites: Recommended: Limits on Enrollment: Transfer Credit: Repeatability: Exempt From Repeat Provisions

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

AS Degree: CSU GE:	Area Transfer Area	Effective: Effective:	Inactive: Inactive:
<b>IGETC:</b>	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. Demonstrate comprehension of basic academic, workplace, and recreational reading of science through discussion and/or brief written responses.
- 2. Demonstrate expanded scientific vocabulary through discussion and/or brief written responses.
- 3. Describe common concepts in the Physical Sciences.

### **Objectives:**

Upon completion of the course, students will be able to:

- 1. Describe and explain key concepts in the Physical Sciences.
- 2. Analyze graphs and charts related to the Physical Sciences.
- 3. Study for the GED or other HSE tests.

## **Topics and Scope:**

- I. Matter and its Interactions
  - A. Elements, atoms, and the periodic table
  - B. Compounds and bonding
  - C. Reaction rates
  - D. Le Chatelier and equilibrium
  - E. Conservation of mass
  - F. Radioactive decay, fission, and fusion
- II. Motion and Stability: Forces and Interactions
  - A. Balanced and unbalanced forces
  - B. Force, mass, and acceleration

- C. Graphing motion
- D. Momentum
- E. Strength of noncontact forces
- F. Electricity and magnetism
- G. Electromagnets
- H. Materials engineering
- III. Energy
  - A. Conservation of energy
  - B. Thermodynamics
  - C. Electrostatic forces

## IV. Waves and Digital Information

- A. Mechanical waves
- B. Advantages of digital information systems
- C. Disadvantages of digital information systems
- D. Electromagnetic ratios--waves or particles?
- E. Effects of electromagnetic radiation
- V. GED Practice Test
  - A. Multiple Choice
  - B. Extended Response Questions

## Assignment:

- 1. Reading from assigned shorter texts, magazines, newspapers, and job-related materials focusing on scientific texts
- 2. Instructor-designed exercises and practice quizzes (4 6)
- 3. Scientific calculation problems (4 6)
- 4. Practice exam

# 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

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

Scientific calculation problems

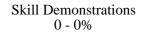
Skill Demonstrations: All skill-based and physical
demonstrations used for assessment purposes including skill
performance exams.

None

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

	Writing 0 - 0%	
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oblem solving 10 - 20%



Exams 70 - 80%

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

Class participation

Other Category 10 - 20%

#### **Representative Textbooks and Materials:**

Houghton Mifflin Harcourt. 2014

Instructor prepared materials McGraw-Hill Education Science Workbook for the GED Test. McGraw-Hill Education. 2015 Kaplan GED Test Science 2015: Strategies, Practice, and Review. Van Slyke, Caren. Kaplan Publishing. 2015 Ciensias. Steck-Vaughn GED: Test Preparation 2014 for GED Science. Spanish Student Edition.