

Glendale College
Course Outline of Record Report

Course ID 010650
 Revision - March 2025

ABSE64 : Mathematical Reasoning for the GED/HiSET

General Information

Author:	<ul style="list-style-type: none"> • Jesus Carino • Perner, Kimberli
Course Code (CB01) :	ABSE64
Course Title (CB02) :	Mathematical Reasoning for the GED/HiSET
Department:	ABSE
Proposal Start:	Spring 2026
TOP Code (CB03) :	(4930.62) Secondary Education (Grades 9-12) and G.E.D.
CIP Code:	(53.0201) High School Equivalence Certificate Program.
SAM Code (CB09) :	E - Non-Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000642797
Curriculum Committee Approval Date:	03/26/2025
Board of Trustees Approval Date:	06/17/2025
Last Cyclical Review Date:	12/13/2023
Course Description and Course Note:	<p>ABSE 64 is designed for adults who wish to review or master basic algebraic and geometric concepts. The concepts range from solving simple equations to understanding how to graph a two-variable equation in a coordinate plane. The course is designed to provide students with the necessary skills to successfully pass the mathematics section of the GED/HiSET. Lecture 64 hours. Note: This course is Pass/ No Pass only.</p>
Justification:	Content Change
Academic Career:	<ul style="list-style-type: none"> • Noncredit
Mode of Delivery:	<ul style="list-style-type: none"> • In-Person • Remote • Hybrid
Author:	No value
Course Family:	No value

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"> • Mathematics
Alternate Discipline:	<ul style="list-style-type: none"> • Mathematics-Basic Skills: Non-Credit
Alternate Discipline:	<ul style="list-style-type: none"> • Interdisciplinary-Basic: Skills: Non-Credit

Course Development

Basic Skill Status (CB08)

Course is a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

Course Special Class Status (CB13)

Course is not a special class.

Pre-Collegiate Level (CB21)

Two levels below transfer,

Grading Basis

- Pass / No-Pass Only

Course Support Course Status (CB26)

Course is not a support course

General Education and C-ID

General Education Status (CB25)

Not Applicable

Transferability

Not transferable

Transferability Status

Not transferable

Units and Hours

Summary

Minimum Credit Units (CB07)	0
Maximum Credit Units (CB06)	0
Total Course In-Class (Contact) Hours	0
Total Course Out-of-Class Hours	0
Total Student Learning Hours	9 - 64

Credit / Non-Credit Options

Course Type (CB04)

Non-Credit

Noncredit Course Category (CB22)

Elementary and Secondary Basic Skills.

Noncredit Special Characteristics

No Value

Course Classification Code (CB11)

Other Non-Credit Enhanced Funding.

Variable Credit Course

Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience Education

Status (CB10)

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	9 - 64	0
Laboratory Hours	0	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	9 - 64

Laboratory	0
Studio	0
Total	0

Course Out-of-Class Hours

Lecture	9 - 64
Laboratory	0
Studio	0
Total	0

Time Commitment Notes for Students

Students arrange their own time commitment appropriate for the amount of study needed to pass the High School Equivalency exam in Mathematics.

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation

Advisory

ABSE20 - BASIC MATH

Objectives

- Compute problems dealing with whole numbers, fractions, decimals, and percent.
- Estimate a reasonable answer to a problem.
- Solve word problems involving whole numbers, fractions, decimals, and percents.

AND

Advisory

ABSE186 - Essentials in Reading and Paragraph Writing

Objectives

- Comprehend both literature and information-based texts at a high school level.
- Utilize various strategies to develop active reading habits.
- Read and locate details in a passage and identify the stated or unstated main idea.
- Articulate answers to comprehension and analysis questions.

OR

Advisory

ESL30 - ENGLISH AS A SECOND LANGUAGE LEVEL 3 (in-development)

Objectives

- Develop coherence and mechanical accuracy.

- Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for this level.
- Converse at a functional level adequate for everyday use on the campus and in the community.

Entry Standards

Entry Standards	Description
No value	No value

Course Limitations

Cross Listed or Equivalent Course	Description
No value	No value

Requisite Validation

Upload Statistical Validation and/or other documents (if necessary)
No Value

Specifications

Methods of Instruction	
Methods of Instruction	Lecture
Methods of Instruction	Discussion
Methods of Instruction	Tutorial
Methods of Instruction	Independent Study
Methods of Instruction	Collaborative Learning

Methods of Instruction		Demonstrations		
Out of Class Assignments				
Not Applicable				
Methods of Evaluation		Description of Activity/Interaction		
Exam/Quiz/Test		Formative assessments at the end of each chapter		
Exam/Quiz/Test		GED and HiSET mathematics practice tests		
Textbook Rationale				
No Value				
Textbooks				
Author	Title	Publisher	Date	ISBN
Jonathan Cox	HiSET Prep Book 2023-2024: 800+ Practice Questions, HiSET Test Study Guide for All Subjects 1st Edition	Accepted, Inc.	2023	978-1637982846
Caren Van Slyke	GED Test Prep Plus 2022-2023	Kaplan	2021	978-1506277356
Other Instructional Materials (i.e. OER, handouts)				
Description	Instructor-generated materials.			
Author	No value			
Citation	No value			
Online Resource(s)	No value			

Learning Outcomes

Course Objectives

Solve word problems in basic geometry, and basic algebra.

Simplify and solve systems of equations and inequalities.

Evaluate functions.

Evaluate graphs to solve geometric problems.

Apply properties of triangles and quadrilaterals.

Calculate scale factors.

Calculate area, perimeter, volume, and surface area of composite figures.

SLOs

Apply mathematical reasoning to solve a contextualized algebra problem.

Expected Outcome Performance: 75.0

Achieve a Passing Score on the GED/HiSET Readiness Math Test.

Expected Outcome Performance: 75.0

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

Algebra Basics, Expressions, and Polynomials (3-24 hours)

- The number line and signed numbers
- Powers and roots
- Scientific notation
- Order of operations
- Absolute value
- Algebraic expressions
- Expressions and calculator skills
- Understand polynomials
- Simplify polynomials
- Add and subtract polynomials
- Multiply polynomials
- Divide polynomials

Equations, Inequalities, and Functions (3-24 hours)

- Equations
- Equation word problems
- Inequalities
- Quadratic equations
- Algebra problem solving
- The coordinate plane
- Graphing a line
- Slope of a line
- Slope and equations
- Systems of linear equations
- Patterns and functions
- Function applications
- Function notation

Geometry (3-16 hours)

- Plane figures
- Triangles
- Pythagorean relationships
- Perimeter and area
- Circles
- Volume
- Surface area
- Combined figures
- Geometry calculator skills.

Total hours: 9-64

Additional Information

Repeatability

Repeatable

Justification (if repeatable was chosen above)

Non-credit courses

Is it possible this course will have a material fee?

No

I have contacted my library liaison (<https://campusguides.glendale.edu/faculty/liaisons>):

Yes

What term(s) will this course be offered?

Fall/Winter/Spring/Summer

Will any additional resources be needed for this course? (Click all that apply)

- No

If additional resources are needed, add a brief description and cost in the box provided.

No Value