

Glendale College

Course Outline of Record Report

Course ID 000104
Revision - March 2025

ABSE22 : ARITHMETIC 1B

General Information

Author:	<ul style="list-style-type: none"> Jesus Carino Perner, Kimberli
Course Code (CB01) :	ABSE22
Course Title (CB02) :	ARITHMETIC 1B
Department:	ABSE
Proposal Start:	Fall 2025
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?:	Yes
Course Control Number (CB00) :	CCC000329270
Curriculum Committee Approval Date:	03/26/2025
Board of Trustees Approval Date:	06/17/2025
Last Cyclical Review Date:	05/08/2024
Course Description and Course Note:	ABSE 22 introduces students to higher level arithmetic: statistics, measurement, and geometric and algebraic principles. This course is designed to meet the needs of students who wish to improve their math skills and to earn high school credit. Laboratory 100 hours. Note: This is a self-paced course in an open-entry, open-exit lab environment. Successful completion of the course results in 5 high school credits.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none"> Noncredit
Mode of Delivery:	<ul style="list-style-type: none"> Online
Author:	No value
Course Family:	No value

Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"> Mathematics-Basic Skills: Non-Credit
Alternate Discipline:	No value
Alternate Discipline:	No value

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)

Not applicable.

Grading Basis

- Grade 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	100
Total Course Out-of-Class Hours	0
Total Student Learning Hours	100

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	0	0
Laboratory Hours	100	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	54
Course In-Class (Contact) Hours	
Lecture	0

Laboratory	100
Studio	0
Total	100
Course Out-of-Class Hours	
Lecture	0
Laboratory	0
Studio	0
Total	0

Time Commitment Notes for Students

This is a self-paced course in an open-entry, open-exit lab environment.

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

ABSE21 - ARITHMETIC 1A

Objectives

- Identify properties of addition and multiplication.
- Perform the indicated operations and reduce answers to lowest terms.
- Simplify expressions.
- Find the perimeter and area of the figures.
- Convert decimals to percent.
- Write each percent as a fraction or a mixed number in lowest terms.

AND

Advisory

ESL30 - ENGLISH AS A SECOND LANGUAGE LEVEL 3

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	Independent Study
Methods of Instruction	Multimedia
Methods of Instruction	Collaborative Learning
Out of Class Assignments	
N/A	
Methods of Evaluation	Description of Activity/Interaction
Other	Completion of individualized contract
Exam/Quiz/Test	Unit tests

Textbook Rationale

The common core textbooks do not have a more recent edition.

Textbooks

Author	Title	Publisher	Date	ISBN
McKeague, Charles.	Basic College Mathematics.	San Louis Obispo: XYZ,	2015.	978-1630980078

Other Instructional Materials (i.e. OER, handouts)

Description	Instructor-generated background information on the mathematics being studied; duplicated handouts from books with copyright permission.
Author	No value
Citation	No value
Online Resource(s)	No value

Learning Outcomes

Course Objectives

Explain and calculate mean, median and mode in the set of numbers.

Perform conversion factors.

Find the perimeter and area of the geometric figures.

Compute problems using positive and negative numbers and algebraic operations.

Solve equations with one variable.

SLOs

Create and interpret visual representations of data to analyze distributions using measures of central tendency (mean, median, mode) and range.
 Expected Outcome Performance: 70.0

ABSE Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.
 NCR AHS Diploma

ABSE
NCR Adult Basic Education Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.

ILOs
Core ILOs Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.

Calculate the circumference, perimeter, and area of two-dimensional geometric shapes (circles, triangles, rectangles, squares).

Expected Outcome Performance: 70.0

ABSE
NCR AHS Diploma Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.

ABSE
NCR Adult Basic Education Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.

ILOs
Core ILOs Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.

Simplify algebraic expressions, solve linear equations in one variable, and apply these skills to solve real-world problems.

Expected Outcome Performance: 70.0

ABSE
NCR AHS Diploma Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.

ABSE
NCR Adult Basic Education Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.

ILOs
Core ILOs Use quantitative and/or analytical mathematical skills to solve problems and to interpret, evaluate, and process information and data to draw logical conclusions and support claims.

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

No value

Laboratory/Studio Content**Descriptive Statistics (20 hours)**

- Mean, median, and mod
- Tables and bar charts
- Scatter diagrams and line graphs
- Pie charts

Measurement (20 hours)

- Length
- Area
- Volume
- Weight
- Conversion of measurement systems
 - Celsius and Fahrenheit
 - Metric and standard

Geometry (20 hours)

- Perimeter and circumference
- Area
- Volume and surface area
 - Rectangular solid
 - Cylinder
 - Sphere
- Calculating missing measurements using similar figures

Introduction to Algebra (20 hours)

- Positive and negative numbers
- Addition with negative numbers
- Subtraction with negative numbers
- Multiplication with negative numbers

Solving Equations (20 hours)

- The distributive property and algebraic expressions
- The addition property of equality
- The multiplication property of equality
- Linear equations in one variable
- Applications
 - Number problems
 - Geometry problems
 - Algebraic problems

Total hours: 100**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/liasons>):

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