ABSE20 : BASIC MATH

General Information

Author:	• Jesus Carino
Course Code (CB01) :	ABSE20
Course Title (CB02) :	BASIC MATH
Department:	ABSE
Proposal Start:	Spring 2025
TOP Code (CB03) :	(4930.60) Elementary Education (Grades 1-8)
CIP Code:	(32.0101) Basic Skills and Developmental/Remedial Education, General.
SAM Code (CB09) :	Non-Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000338061
Curriculum Committee Approval Date:	05/08/2024
Board of Trustees Approval Date:	06/18/2024
Last Cyclical Review Date:	05/08/2024
Course Description and Course Note:	ABSE 20 is a math course designed for adults who wish to review or master basic arithmetic from whole number operations through fractions, decimals, and percent. Lecture 64 hours. Note: This is a self-paced course in an open-entry, open-exit lab environment. Note: This course is pass/ no pass only.
Justification:	Mandatory Revision
Academic Career:	• Noncredit

Academic Senate Discipline

Primary Discipline:	• 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

• Pass / No-Pass Only

Course Support Course Status (CB26)

Course is not a support course

Transferability & Gen. Ed. Options

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	120
Total Course Out-of-Class Hours	0
Total Student Learning Hours	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.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	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	64
Laboratory	0
Studio	0
Total	120

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

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Advisory

ESL40 - ENGLISH AS A SECOND LANGUAGE LEVEL 4

<u>Objectives</u>
- Demonstrate mastery of grammatical structures studied at a level sufficient to pass unit tests and the divisional grammar mastery test for this level.
- Decode 3,000-word reading passages, identify main ideas and supporting details, make inferences, and summarize short passages.

Entry Standards

Entry Standards

Course Limitations

Cross Listed or Equivalent Course

Specifications

Methods of Instruction

Methods of Instruction	Independent Study
Methods of Instruction	Multimedia
Methods of Instruction	Other

Out of Class Assignments

N/A

Methods of Evaluation	Rationale
Other	Completion of individualized contract
Exam/Quiz/Test	Unit tests

Textbook Rationale

Since the change to the GED test, these textbooks do not have more recent copies.

Textbooks

Author	Title	Publisher	Date	ISBN
N/A	Breakthrough to Math Book Level 1	Syracuse: New Readers Press	2012	978-1-56420-966-5
N/A	Breakthrough to Math Book Level 2.	Syracuse: New Reader P	2012	978-1-56420-975-7
Hoyt, Cathy F.	Math Sense 2 Focus on Operations	Syracuse: New Reader Press	2015	978-1-56420-691-6

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

No Value

Materials Fee

No value

Learning Outcomes and Objectives

Course Objectives

Compute problems dealing with whole numbers, fractions, decimals, and percent.

Estimate a reasonable answer to a problem.

Solve word problems involving whole solve multiple-step problems involving whole numbers, fractions, decimals, and percent.

Solve word problems involving whole numbers, fractions, decimals, and percent.

SLOs

Recognize key words when solving world problems and be able to determine the necessary operation (s) needed.

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 Core PLOs	Apply the skills that the Common Core Standards have identified for each course.
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.

Explain the difference between types of fractions and be able to convert from one format to another.

Expected Outcome Performance: 70.0

ILOs Core ILOs	Analyze and solve problems using critical, logical, and creative thinking; ask questions, pursue a line of inquiry, and derive conclusions; cultivate creativity that leads to innovative ideas.
	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.
ABSE NCR AHS Diploma	Apply mathematical ways of thinking to real world issues and challenges using mathematical modeling and problem solving techniques.
ABSE Core PLOs	Apply the skills that the Common Core Standards have identified for each course.
ABSE NCR Adult Basic Education	Compute and solve real world problems using basic operations with whole numbers, fractions, decimals, and percents.
ABSE NCR GED Preparation	Solve a variety of word problems, many with graphics, using basic computation, analytical and reasoning skills.

Calculate conversion of percent to decimal and decimal to percent.

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 Core PLOs	Apply the skills that the Common Core Standards have identified for each course.
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

Whole numbers (11 hours)
- Computation
- Addition
- Subtraction
- Multiplication
- Division
- Estimation
- Word problems

Fractions (21 hours)
- Meaning, renaming, and reducing
- Common denominators and LCD
- Computation
  - Addition (like and unlike denominators)
  - Subtraction (like and unlike denominators)
  - Multiplication
  - Division
- Mixed numbers
  - Renaming
  - Regrouping
  - Addition (with and without renaming)
  - Subtraction (with and without regrouping)
  - Multiplication
  - Division
- Estimation
- Word problems

Decimals (16 hours)
- Meaning
- Computation
  - Addition
  - Subtraction
  - Multiplication
  - Division
- Estimation
- Word problems

Percent (16 hours)
- Meaning
- Whole, part, percent
- Computation
- Word problems

Total hours: 64

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

No Value

Repeatability

Repeatable

Justification (if repeatable was chosen above)

Non-credit courses

Resources

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liason?

No Value

Did you contact the DEIA liaison?

No

Were there any DEIA changes made to this outline?

No

If yes, in what areas were these changes made:

No Value

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