



**COURSE OUTLINE: ABSE 120**

**N Non-Credit**

**COURSE ID**

**APRIL 2019**

**COURSE DISCIPLINE:** ABSE  
**COURSE NUMBER:** 120  
**COURSE TITLE (FULL) :** Basic Mathematics Review  
**COURSE TITLE (SHORT) :** Basic Math Review

### **CATALOG DESCRIPTION**

ABSE 120 is a contextualized math course which prepares students for a successful transition to college, apprenticeships, and employment. Topics include numeracy, fractions, decimals, percentages, unit conversion, ratios, and proportions. Note: This is a noncredit open-entry open-exit course. Laboratory 20 hours.

Total Lecture Units:0.00

Total Laboratory Units: 0.00

**Total Course Units: 0.00**

Total Lecture Hours:0.00

Total Laboratory Hours: 20.00

Total Laboratory Hours To Be Arranged: 0.00

**Total Faculty Contact Hours: 20.00**

**Total Student Contact Hours: 20.00**

Recommended Preparation: ESL 30 or equivalent.

### **ENTRY STANDARDS**



**COURSE OUTLINE: ABSE 120**

**N Non-Credit**

**COURSE ID**

**APRIL 2019**

	<b>Subject</b>	<b>Number</b>	<b>Title</b>	<b>Description</b>	<b>Include</b>
1				Converse at a functional level adequate for everyday use on the campus and in the community;	Yes
2				decode 2,500-word reading passages and respond to inference and recall questions.	Yes

**EXIT STANDARDS**

- 1 Compute problems dealing with whole numbers, fractions, decimals, and percentages;
- 2 utilize ratios and proportions in contextualized settings;
- 3 solve multiple-step problems appropriate to industries and/or academics;
- 4 develop fluency in mathematical terminology;
- 5 estimate a reasonable answer to a problem.

**STUDENT LEARNING OUTCOMES**

- 1 Compute integers, decimal numbers, percent and fractions without the aid of a calculator
- 2 Perform operations with variable and unknown quantities
- 3 Apply mathematical principals and techniques in specific career pathways

**COURSE CONTENT WITH INSTRUCTIONAL HOURS**



**COURSE OUTLINE: ABSE 120**

**N Non-Credit**

**COURSE ID**

**APRIL 2019**

	Description	Lecture	Lab	Total Hours
1	Calculations using whole numbers, and decimal numbers <ul style="list-style-type: none"> <li>• Meaning computation</li> <li>• Addition, subtraction, multiplication, division</li> <li>• Rounding and estimation</li> <li>• Decoding word problems</li> </ul>	0	4	4
2	Fractions <ul style="list-style-type: none"> <li>• Meaning, estimation, renaming, and reducing ·</li> <li>• Common denominators and lowest common denominators ·</li> <li>• Addition (like and unlike denominators) ·</li> <li>• Subtraction (like and unlike denominators)·</li> <li>• Multiplication and division ·</li> <li>• Mixed numbers, renaming, and regrouping in addition and subtraction ·</li> <li>• Multiplication and division of mixed numbers·</li> <li>• Decoding word problems with fractions</li> </ul>	0	7	7
3	Ratios and proportional relationships <ul style="list-style-type: none"> <li>• Differentiating between ratios and fractions</li> <li>• Using proportions in problem solving</li> <li>• Measurement conversions using proportions</li> <li>• Proportions and map scales</li> </ul>	0	3	3
4	Percentages and applications <ul style="list-style-type: none"> <li>• Meaning of percent</li> <li>• Whole, part, and percent computation</li> <li>• Using proportion to solve percent problems</li> <li>• Simple interest</li> <li>• One step and multistep problems including discounts and simple interest</li> </ul>	0	6	6
				<b>20</b>

**OUT OF CLASS ASSIGNMENTS**

- 1 Applied practice

**METHODS OF EVALUATION**

- 1 Class participation
- 2 Quizzes
- 3 Exit assessment



**COURSE OUTLINE: ABSE 120**  
**N Non-Credit**  
**COURSE ID**  
**APRIL 2019**

**METHODS OF INSTRUCTION**

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

**TEXTBOOKS**

<b>Title</b>	<b>Type</b>	<b>Publisher</b>	<b>Edition</b>	<b>Medium</b>	<b>Author</b>	<b>ISBN</b>	<b>Date</b>
Math Sense Book 1: Focus on Operations	Supplemental	New Reader Press	1		Hoyt, Cathy Fillmore	978-1- 56420-691- 6	2015