



MASTER COURSE OUTLINE

Date: September 1, 2018

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COURSE TITLE

Algebra I HS Mathematics

GENERAL COURSE INFORMATION

Dept.: HSC

Course Num: 016

(Formerly:)

CIP Code: 32.0240

Intent Code: 12

Program Code: N/A

Credits: 0.5-1

Total Contact Hrs Per Qtr.: 55

Lecture Hrs: 55

Lab Hrs: 16.5-83

Other Hrs:

Distribution Designation:

COURSE DESCRIPTION (as it will appear in the catalog)

The course provides math instruction in interpreting graphs and charts with algebraic expressions and equations to meet the math skills required for high school graduation.

For high school completion credit only.

PREREQUISITES

Students must be enrolled in a Basic Skills class

TEXTBOOK GUIDELINES

Instructional materials selected in conjunction with Departmental Chair

COURSE LEARNING OUTCOMES

Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:

- Demonstrate mastery of applied mathematics and algebraic reasoning
- Interpret and work with pictures, numbers, and symbolic information
- Communicate results using a variety of mathematical representations
- Apply knowledge of math concepts and procedures to carry out a task using algebra
- Define and select data used in solving mathematical problems

INSTITUTIONAL OUTCOMES

None

COURSE CONTENT OUTLINE

- Add, subtract, multiply, divide with negatives and positives
- Solve order of operations problems
- Solve percent and proportion problems
- Evaluate formulas
- Distribute and combine like terms
- Simplify problems with exponent properties
- Solve multi-step linear equations

- Graphs of linear equations including slope and equations of lines
- Multiply binomials (FOIL)
- Factor trinomials and solve by factoring

DEPARTMENTAL GUIDELINES

This course will satisfy one high school credit for HS21. Exam approved by the college math department will be used for an exit exam. A passing score on this exam is required for credit. Independent study may be approved by instructor on a topic related to mathematics. HS21 & ABE students will demonstrate progression by the number of credits earned during the quarter.

College and Career Readiness Standards (CCRS) for BEdA Program: Instruction is aligned to the following CCR Standards:

E in Math based on the CCRS Anchors:

- 1 (Make sense of problems and persevere in solving them)
- 2 (Reason abstractly and quantitatively)
- 3 (Construct viable arguments and critique the reasoning of others)
- 4 (Model with mathematics)
- 5 (Use appropriate tools strategically)
- 6 (Attend to precision)
- 7 (Look for and make use of structure)
- 8 (Look for and express regularity in repeated reasoning)

DIVISION CHAIR APPROVAL

DATE