



MASTER COURSE OUTLINE

Date: September 1, 2018

Prepared By: Rosemary Parsons, Jesse Allen, Christopher Browning, & Emily Anderson

COURSE TITLE

Career and Technical HS Mathematics

GENERAL COURSE INFORMATION

Dept.: HSC

Course Num: 015

(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 applied math concepts to include whole numbers, fractions, decimals, statistical information and probability. For high school completion credit only. May be repeated as needed.

PREREQUISITES

Students must be registered in a Basic Skills class and have taken the CASAS pre-test

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:

- Perform mathematical skills using addition, subtraction, multiplication, division
- Convert between decimals, fractions, mixed numbers and percent
- Demonstrate mastery of applied mathematics and statistical reasoning
- Interpret and work with pictures, numbers, and symbolic information
- Communicate results using a variety of mathematical representations
- Apply knowledge of basic math concepts and procedures to carry out a task
- Define and select data used in solving mathematical problems
- Determine the degree of precision required by the situation

INSTITUTIONAL OUTCOMES

None

COURSE CONTENT OUTLINE

- Addition, subtraction, multiplication, division of whole numbers, fractions, decimals and mixed numbers
- Comprehension of ratios, proportions
- Number line, positive and negative numbers
- Basic data analysis and probability including mean, median and mode
- Graphs, charts, tables and symbolic information

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.

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C-D 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