SECTION 1 - BASIS

COURSE TYPE: N Noncredit

SUBMITTED BY:

☐ **DISTANCE EDUCATION CERTIFICATION**

EFFECTIVE TERM: Summer 2019

☐ **Does the course content overlap or duplicate any other course content?**

DUPLICATION / OVERLAP

Note: Consultation with the faculty, department(s) and dean(s) where the overlap occurs is required and documentation of the consultation should be attached to course proposal prior to the proposal being submitted to the Curriculum Office (Stage 5).

Be advised that consulting with other departments and working with their department meeting schedules may take several weeks.

A. Specifically, what unique topics are taught in the proposed course?

B. What percentage of each course contains the same topics?

C. Are these topics taught in different ways/to different audiences at different skill levels?

D. Explain why the proposed course requires the overlapping content.

E. What is stated in course descriptions to ensure that students know which course is appropriate for them, given the overlapping content?

SECTION 2 - Course Identification

COURSE ID: BS   **COURSE NUMBER:**   MCCR

COURSE TITLE (FULL):   Math for College and Career Readiness

COURSE TITLE (SHORT): College and Career Math

COURSE DIVISION: Continuing Education Division

COURSE DEPARTMENT: Adult Basic Education

COURSE SUBJECT:

DISCIPLINE:

Course Identification Numbering System (C-ID):

C-ID Full Title (https://c-id.net)

TOP CODE :   493062 High School Diploma Program/GED

CIP CODE:

SECTION 3 - Course Attributes

COURSE CREDIT STATUS:

BASIC SKILLS: Basic Skills Course

PRE-COLLEGIATE LEVEL: Y - Not Applicable

SAM PRIORITY CODE: E

FUNDING AGENCY CATEGORY: Not Applicable

COURSE VARIATION:

CROSS LISTING STATUS:

☐ Does this course share an outline with any other course or courses?

COURSE PROGRAM STATUS: 1 - Program Applicable

REPEATABILITY: Noncredit Repeatable

NONCREDIT COURSE TYPE: C - Basic Skills

NONCREDIT ENHANCING FUNDING: True

STATE TRANSFER CODE :

STATE CLASSIFICATION CODE :   K Other - NCR Enh Funding

NONCREDIT SPECIAL CHARACTERISTICS CODE :

Sports/Physical Education Course :   No

GRADING METHOD :   Pass/No Pass

CREDIT BY EXAM: Not Allowed

WORK EXPERIENCE:

PREREQUISITES, CO-REQUISITES OR ADVISORY FOR ENROLLMENT (ENTRY STANDARDS)

- ☑ None
- ☐ Adding prerequisites, corequisites or advisories
- ☐ Maintaining prerequisites, corequisites or advisories
- ☐ Removing prerequisites, corequisites or advisories

Non Standard Requisite

Section 4 - Course Workload Values

Faculty Contact Hours	Lecture	Lab	Act/Clin	Total
Minimum Contact Hours	4	0	0	4
Maximum Contact Hours	140	0	0	140
Minimum Out of Class Hours	0	0	0	0
Maximum Out of Class Hours	0	0	0	0
Minimum TBA Hours	0	0	0	0
Maximum TBA Hours	0	0	0	0
Scheduled Hours	0	0	0	0
Minimum Units	0	0	0	0
Maximum Units	0	0	0	0

Work Experience Hours	Paid	Unpaid
Minimum Hours	0	0
Maximum Hours	0	0
Minimum Units	0	0
Maximum Units	0	0

Lab/Lecture Parity :   No

- ☐ Yes, Parity Approved

- ☐ Not Requesting Parity

- ☐ Applying for Parity

METHODS OF INSTRUCTION

☑ Lecture

☐ Laboratory

☐ Lecture and Laboratory

☑ Distance Learning

☐ Open Entry/Exit

☐ Independent Studies

☐ Work Experience

☐ Other TBA

Class Size : 0

Section 5 - Course Certifications

CSU GENERAL EDUCATION AREA

INTERSEGMENTAL GENERAL EDUCATION TRANSFER (IGETC) AREA

ASSOCIATE DEGREE GRADUATION REQUIREMENTS

Section 6 - Course Certifications

CATALOG DESCRIPTION

Contextualized math course to prepare students for successful transition to college, apprenticeships, and employment. Topics include numeracy, fractions, decimals, unit conversion, ratios, proportions, algebra, measurement, and statistics.

SCHEDULE DESCRIPTION

Contextualized math course to prepare students for successful transition to college, apprenticeships, and employment.

COURSE OUTLINE WITH INFORMATION

LECTURE TOPICAL OUTLINE
Calculations using all number systems

Fractions applied to specific career pathways

Decimals applied to specific career pathways

Ratios and proportional relationships applied to specific career pathways

Percentages applied to specific work and career pathways

Linear equations and functions used in industry

Measurement calculations applied to specific career pathways

Statistics applied to specific work, apprenticeships, and college pathways

Industry specific math vocabulary

LAB TOPICAL OUTLINE

MEASURABLE OBJECTIVES
1. Improve speed and accuracy in calculations using all number systems.
2. Solve contextualized fractions, decimal, proportions, and percent calculations.
3. Apply and extend previous understanding of number operations to calculate industry specific mathematical problems.
4. Apply statistical concepts to analyze contextualized data.
5. Use proportional relationships to solve multi-step ratio word problems as a foundation for problem solving.
6. Convert unit measurements specific to workplace and CTE college coursework.
7. Use equations and functions to solve problems in the workplace, apprenticeship programs, and to prepare for college coursework.
8. Define industry specific vocabulary needed to solve mathematical problems.

METHODS OF EVALUATION

Category 1.Substantial written assignments for this course include:

If the course is degree applicable, substantial written assignments in this course are inappropiate because:

Category 2. Computational or non-computational problems solving demonstrations

Practice sets using fractions, decimals, percents, ratios, proportions, equations, and statistical analysis to assist in success in completing career training
Practice sets on conversion of measurement systems

Category 3. Skills Demonstrations

Category 4. Objective examinations
Quizzes and multiple choice exams in math

SAMPLE ASSIGNMENTS

(Assignments should be directly related to the objectives of the course. They should be specific enough to provide real guidance to faculty and clear expectations for students. Descriptions of the type or examples of assignments are required. For example, rather than "term paper" state "term paper comparing and contrasting the social aspects of hunting tactics of two mammal species." This section must establish that the work is demanding enough in rigor and independence to fulfill the credit level specified. The nature of the assignments must clearly demand critical thinking. Assignments should be adequate to assure that students who successfully complete them can meet the objectives of the course. Appropriate out-of-class work is required for credit courses.)

1. Complete Post Test 2 on pages 66-68 in "Calculation of Drug Dosages." You will practice decimal operations that will help solve dosage problems. Please submit to the instructor for grading.
2. Solve the following word problems using Ohm's Law ($V=IR$). Solve for voltage, current, and resistance. Review worksheet with the instructor or tutor for further instruction.
3. Complete the worksheet on conversions. You will convert measurements found in a construction site into the approximate metric equivalent. Submit to the instructor for grading.

TEXTBOOKS

Title	Publisher	Edition	Author	Date	Online Education Resource

 If substantial assignments then justification of older textbooks

Requisites			
& / Or	**Course Name**	**Type**	**Is Being**

Preconditions of Enrollment Justification Notes/Comments: