



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: MPSTM

COURSE TITLE (FULL): Math Preparation for BSTEM Success

COURSE TITLE (SHORT): Math Prep for BSTEM

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: A - One Level Below Transfer

SAM PRIORITY CODE: E - Non-Occupational

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 : Non applicable

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	75	0	0	75
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

Course General Education Status :

Course Support Course Status :

Section 5 - Course Certifications



CSU GENERAL EDUCATION AREA

INTERSEGMENTAL GENERAL EDUCATION TRANSFER (IGETC) AREA

ASSOCIATE DEGREE GRADUATION REQUIREMENTS

Section 6 - Course Certifications

CATALOG DESCRIPTION

Review of algebraic skills to be successful in BSTEM (Business, Science, Technology, Engineering, and Mathematics) courses. Topics of review include fundamental operations on algebraic expressions and functions; simplify polynomial and rational expressions; apply properties of exponents and evaluate exponential expressions and functions; and solve linear systems of equations with elimination, substitution, and matrix row operations.

SCHEDULE DESCRIPTION

Review of algebraic skills to be successful in BSTEM courses.

COURSE OUTLINE WITH INFORMATION

LECTURE TOPICAL OUTLINE



Functions, function notation, and graphing of basic functions
Factor and graph absolute value equations and inequalities
Quadratic and other polynomial functions: factoring, solving, and graphing
Rational equations and inequalities
Properties of exponential functions, fractional exponents, and radicals
Systems of equations: elimination, substitution, and matrix row operations

LAB TOPICAL OUTLINE

MEASURABLE OBJECTIVES

1. Graph basic functions in function notation.
2. Perform algebraic operations and graph inequalities.
3. Apply algebraic methods, including factoring, to reduce and solve quadratic and other polynomial equations.
4. Solve rational equations and inequalities.
5. Apply properties of exponents to solve exponential and radical equations.
6. Determine solutions to systems of equations using elimination, substitution, and matrix row operations.

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 inappropriate because:

Category 2. Computational or non-computational problems solving demonstrations

Complete worksheets on the practices and applications of algebra

Category 3. Skills Demonstrations

Category 4. Objective examinations

Short response and multiple-choice tests on algebra

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. Graph the following rational equation $f(x) = x^2 + 4x + 4$
2. Solve the following system of equations: $4y + 3x = 11$, $3y - 2x = 4$
3. Find and graph the solution set to the following inequality:
4. $1/2 x - 8$



TEXTBOOKS

Title	Publisher	Edition	Author	Date	Online Education Resource
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If substantial assignments then justification of older textbooks

Requisites			
& / Or	Type	Course Name	Is Being

Preconditions of Enrollment Justification Notes/Comments: