



**SECTION 1 - BASIS**

COURSE TYPE: N Noncredit

SUBMITTED BY:

DISTANCE EDUCATION CERTIFICATION

EFFECTIVE TERM: Summer 2020

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: HCM1

COURSE TITLE (FULL): Transitional Math for Health Careers 1

COURSE TITLE (SHORT): Math for Health Careers 1

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 : 493060 Adult Basic Education (Grades 1-8)



CIP CODE:

**SECTION 3 - Course Attributes**

**COURSE CREDIT STATUS:**

**BASIC SKILLS:** Not Applicable

**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 :** 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**

<b>Faculty Contact Hours</b>	<b>Lecture</b>	<b>Lab</b>	<b>Act/Clin</b>	<b>Total</b>
Minimum Contact Hours	4	0	0	4
Maximum Contact Hours	288	0	0	288
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

<b>Work Experience Hours</b>	<b>Paid</b>	<b>Unpaid</b>
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 basic math to prepare for successful transition to health career programs including numeracy, fractions, decimals, unit conversion, ratios, and proportions to apply to dimensional analysis.

### SCHEDULE DESCRIPTION

Math for health careers including numeracy, fractions, decimals, unit conversion, ratio, and proportion for dimensional analysis

### COURSE OUTLINE WITH INFORMATION

#### LECTURE TOPICAL OUTLINE

Calculations using all number systems

Measurement

Place value

Fractions

Decimals

Ratios and proportional relationships

#### LAB TOPICAL OUTLINE

#### MEASURABLE OBJECTIVES

1. Improve speed and accuracy in calculations using all number systems.
2. Apply place value within the metric system for dosage measurements.
3. Apply and extend previous understanding of operations with fractions and decimals to add, subtract, multiply, and divide rational numbers in preparation for calculations in the health field.
4. Apply ratio concepts and reasoning to solve problems involving dosage calculations.
5. Use proportional relationships to solve multi-step ratio word problems as a foundation for dimensional analysis.
6. Convert unit measurements.
7. Calculate simple dosages using dimensional analysis.

#### 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:**

This course is skills and competency based. Written assignments are not applicable.

**Category 2. Computational or non-computational problems solving demonstrations**

Practice sets using fractions, decimals, percents, ratios, and proportions to assist in computing dosages

Practice sets on conversion of measurement systems

**Category 3. Skills Demonstrations**



**Category 4. Objective examinations**

Quizzes to calculate dosages using mathematical operations  
 Cumulative math basic skills assessment

**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 turn into instructor for grading.
2. Complete page 135 in "Calculation of Drug Dosages." You will change equivalents within the metric system that will help solve dosage problems. You should work with a partner and check your answers with your peers.
3. Complete the worksheet on conversions. You will convert household measurements into the approximate metric equivalent. Review your answers with a peer. Submit to instructor for grading.

**TEXTBOOKS**

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

Requisites			
& / Or	Course Name	Type	Is Being

Preconditions of Enrollment Justification Notes/Comments: