COLLEGE OF THE DESERT

Course Outline of Record

1. Course Code: MATH-370A
2.   a. Long Course Title: Arithmetic of Whole Numbers-Module 1
       b. Short Course Title: Whole Numbers I
3.   a. Catalog Course Description:

   This is a course in the basic operations of arithmetic of whole numbers. Topics include definition of whole numbers; adding and subtracting of whole numbers; writing of whole numbers in standard and expanded notation; and applying whole numbers to real life situations.

       b. Class Schedule Course Description:

   This course will focus on adding and subtracting of whole numbers with applications of whole numbers to real life situations.

       c. Semester Cycle (*if applicable*): *N/A*
       d. Name of Approved Program(s):
   - WHOLE NUMBERS Certificate of Competency

4. Total Units: 0   Total Semester Hrs: 1.50-18.00
       Lecture Units: 0   Semester Lecture Hrs: 0
       Lab Units: 0   Semester Lab Hrs: 1.50-18.00
           Class Size Maximum: 70   Allow Audit: No
           Repeatability Noncredit - Unlimited
           Justification 0

5. Prerequisite or Corequisite Courses or Advisories:
   Course with requisite(s) and/or advisory is required to complete Content Review Matrix (CCForm1-A)
   N/A

6. Textbooks, Required Reading or Software: *(List in APA or MLA format.)*
       a. Martin-Gay (2014). *Basic College Mathematics with Early Integers* (3rd/e). Pearson. ISBN: 9780321922342
           College Level: No
           Flesch-Kincaid reading level: 8.2
       b. Department of Math, College of the Redwoods (2013). *Prealgebra Textbook Department of Math* College of the Redwoods.
           College Level: No
           Flesch-Kincaid reading level: *N/A*

7. Entrance Skills: *Before entering the course students must be able:*

8. Course Content and Scope:
   ### Lecture:
none

   Lab: *(if the "Lab Hours" is greater than zero this is required)*
1. Complete self-pace lab assignments at a mastery level.
2. Participate in skill lab by working on either paper or web based worksheets to practice skills learned in textbook.
3. Receive academic assistant from instructor, ISAs and tutors on individual basis.
4. Complete and pass timed final exam.

9. Course Student Learning Outcomes:

1.
Demonstrate number sense, which is characterized by the ability to judge relative sizes of numbers, perform computations with numbers in different representations, and assess the reasonableness of results.

2.
Use the information contained in application problems to identify and execute methods of solution that involve arithmetic skills, and evaluate the reasonableness of the results obtained.

10. Course Objectives: *Upon completion of this course, students will be able to:*
   a. Demonstrate proficiency in basic whole number facts such as addition and subtraction of whole numbers.
   b. Compute using the basic operations of addition and subtraction on the whole numbers.
   c. Apply the basic operations to solve application problems including those involving perimeter of basic geometric shapes.
   d. Comprehend the different ways of writing whole numbers such as writing in standard notation and in expanded notation.

11. Methods of Instruction: *(Integration: Elements should validate parallel course outline elements)*
   a. Demonstration, Repetition/Practice
   b. Laboratory
   c. Technology-based instruction
   d. Tutorial
   Other Methods:

   Teamwork; Discussion, to review, analyze, and evaluate various methods of solution; Skills lab participation

12. Assignments: *(List samples of specific activities/assignments students are expected to complete both in and outside of class.)*
   In Class Hours: 18.00
   Outside Class Hours: 9.00
   a. In-class Assignments

   1. Complete lab assignments,
   2. Participate in discussion groups to review, analyze, diagnose, and evaluate various methods of solution,
   3. Complete examinations involving problems that require the application of studied principles and skills to new situations as well as problems that mimic those done on lab assignments.

   b. Out-of-class Assignments

   1. Read the textbook and any supplementary materials.

13. Methods of Evaluating Student Progress: *The student will demonstrate proficiency by:*
   • Self-paced testing
   • Computational/problem solving evaluations
   • Mid-term and final evaluations

14. Methods of Evaluating: Additional Assessment Information:

15. Need/Purpose/Rationale -- *All courses must meet one or more CCC missions.*
   PO-GE C4.b - Language & Rationality (Communication & Analytical Thinking)
      Gather, assess, and interpret relevant information.
      Apply logical and critical thinking to solve problems; explain conclusions; and evaluate, support, or critique the thinking of others.
   IO - Scientific Inquiry
      Analyze quantitative and qualitative information to make decisions, judgments, and pose questions.
   IO - Global Citizenship - Scientific & Technological Literacy

Utilize quantitative expression in a variety of contexts. These would include units of measurement, visual representations, and scales and distributions.

Synthesize, interpret, and infer, utilizing information, data, and experience to solve problems, innovate, and explore solutions.

16. Comparable Transfer Course

University System	Campus	Course Number	Course Title	Catalog Year

17. Special Materials and/or Equipment Required of Students:

18. Materials Fees: ☐ Required Material?

Material or Item	**Cost Per Unit**	**Total Cost**

19. Provide Reasons for the Substantial Modifications or New Course:

This course would address the students who place into the lower part of Math-70 and need more time to develop foundational numeracy skills in whole numbers.

20.   a. Cross-Listed Course *(Enter Course Code)*:   *N/A*
      b. Replacement Course *(Enter original Course Code)*:   *N/A*

21. Grading Method *(choose one)*:   Pass/No Pass Optional

22. MIS Course Data Elements
    a. Course Control Number [CB00]:   CCC000580313
    b. T.O.P. Code [CB03]:   170100.00 - Mathematics, General
    c. Credit Status [CB04]:   N - Noncredit
    d. Course Transfer Status [CB05]:   C = Non-Transferable
    e. Basic Skills Status [CB08]:   1B = Course is a basic skills course
    f. Vocational Status [CB09]:   Not Occupational
    g. Course Classification [CB11]:   K - Other Noncredit Enhanced Funding
    h. Special Class Status [CB13]:   N - Not Special
    i. Course CAN Code [CB14]:   *N/A*
    j. Course Prior to College Level [CB21]:   E = 5 Levels Below
    k. Course Noncredit Category [CB22]:   C - Elementary and Secondary Basic Skills
    l. Funding Agency Category [CB23]:   Y = Not Applicable
    m. Program Status [CB24]:   1 = Program Applicable
    Name of Approved Program *(if program-applicable)*:   WHOLE NUMBERS
    Attach listings of Degree and/or Certificate Programs showing this course as a required or a restricted elective.)

23. Enrollment - Estimate Enrollment
    First Year: 450
    Third Year: 450

24. Resources - Faculty - Discipline and Other Qualifications:
    a. Sufficient Faculty Resources: Yes
    b. If No, list number of FTE needed to offer this course: *N/A*
25. Additional Equipment and/or Supplies Needed and Source of Funding.
    A computer lab with 70 computers is needed.
26. Additional Construction or Modification of Existing Classroom Space Needed. *(Explain:)*
    N/A

27. FOR NEW OR SUBSTANTIALLY MODIFIED COURSES
    Library and/or Learning Resources Present in the Collection are Sufficient to Meet the Need of the Students Enrolled in the Course: Yes

28. Originator Thang Le   Origination Date 08/25/16