YUBA COMMUNITY COLLEGE **COURSE OUTLINE** Static Id# _____

Date Effective _____

(1)Department Math No. 110B Title Fractions and Mixed Numbers

Division Math and Science Total Crs. Hrs. 18 Lec Hrs 18 Lab Hrs 0 Units 1

Abbreviated Title (max. of 23 incl. spaces) Fractions and Mix Num

Course is cross listed: yes [ ] no [X] XL Course(s) Department(s) & #(s):

(2)NEW COURSE [X] REVISED COURSE [ ] TECHNICAL REVISION [ ]

(3)DEGREE CREDIT [ ] NON-DEGREE CREDIT [X] NONCREDIT [ ]

(5) Grading Method Letter [ ] CR/NC [ ]

(4) CHANGES IN REVISED COURSES:

	From	To		From	To
Department			Lec hrs		
Course #			Lab hrs		
Units			Catalog description	☐	
Other:					

For Office Use
DP Input
TOPS Code
SAM CODE
Crs. Classification
Transfer Code
UC Trnsfr Code(s)
CSU Trnsfr Code(s)
Course CAN Code
Note

(6) CATALOG DESCRIPTION: (Maximum of 370 characters including spaces)

Calculation of sums, differences, products, and quotients using fractions and mixed numbers. Conversion of mixed numbers to improper fractions and improper fractions to mixed numbers. Exponentiation of fractions. Use of fractions in ratios, proportions, and problem solving. Use of the hand held calculator. Mathematical vocabulary.

(7A) COREQUISITE(S): NONE [X]
(7B) PREREQUISITE(S): NONE [X]

(8) SKILL REQUISITE(S): Language [ ] Mathematics [ ] Exception [ ] Course 100 or above [ ]

(9)TOPICAL OUTLINE OF SUBJECT MATTER

Topical Outline Of Subject Matter

1. The fundamentals of adding, subtracting, multiplying, and dividing fractions and mixed numbers
2. Exponents
3. Conversion of improper fractions to mixed numbers and mixed numbers to improper fractions
4. Use of the hand held calculator to add, subtract, multiply, divide, and exponentiate fractions and mixed numbers
5. The order of operations
6. Ratios and proportions involving fractions and mixed numbers
7. Problem solving
8. Prime numbers, composite numbers, and prime factorization

(10)SPECIFIC STUDENT PERFORMANCE OBJECTIVES
At the conclusion of this course, the studen will be able to:

Specific Student Performance Objectives:

Upon completing this course the student will have had the opportunity to have learned how to:

1. Add, subtract, multiply, divide, and exponentiate fractions and mixed numbers
2. Convert improper fractions to mixed numbers and mixed numbers to improper fractions
3. Use a hand held calculator to complete the arithmetic operations covered
4. Apply the order of operations
5. Solve ratio, proportion, and application problems with fractions and mixed numbers
6. Demonstrate an understanding and proper use of mathematical vocabulary

(11a) TEXT - Author(s):
Title: Sections as needed from textbook currently used for
Publisher: Mathematics 110 Edition: Date:
Or Equivalent Materials prepared by instructor.

(b) Other required materials

Scientific calculator with a fraction key

(12) Class organization and method - check all which apply:

[X] Lecture [X] Discussion [ ] Laboratory [ ] Specific attendance standards

Other Individual and group work

(13) Preparation required outside of class. (College level requires two hours of outside preparation for each hour of lecture)

[X] Reading assignments
[X] Problem solving exercises/ activities
[ ] Writing assignments
[ ] Term paper(s)
[ ] Skills practice
[ ] Journal
[ ] Observation of or participation in related activity (e.g. play, museum, concert, debate, meeting, etc.)
[ ] Other

(14) Identify any other field or major with which this course correlates:

(15) Grading (If activity class and eligible for an exception (E), please indicate what percentage of grade is based on skills demonstration.)

% Skills

(a) Items upon which students' grade will be based. Check all which apply:

[ ] Essay tests
[X] Quizzes
[ ] Laboratory assignments
[X] Performance exams
[ ] Other
[ ] Objective tests (multiple choice, completion, true/ false, etc.)
[ ] Oral test
[X] Written homework
[ ] Class performance

(b) Describe minimum standards:

[ ] Departmental standard. Please state:

[X] Non-departmental standard: Satisfactory completion of assignments and tests as specified by the instructor.

(c) Describe how student writing is to be considered, or how problem solving or skills demonstration will be evaluated:

[ ] Essay tests [ ] Term paper [ ] Research paper [ ] Performance test
[ ] Lab report [ ] Skills test [X] Written problems [ ] Homework
[ ] Other