



COURSE IMPLEMENTATION DATE: September 2009
 COURSE REVISED IMPLEMENTATION DATE: May 2010
 COURSE TO BE REVIEWED: March 2013
(four years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

MATH 053	Upgrading and University Preparation	1.5
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Fundamental Math II		
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This is the second of four basic mathematics courses. At this level, students will be introduced to addition, subtraction, multiplication, and division of decimals and fractions. Estimation and problem-solving will also be part of this course. Student learning issues such as “math anxiety” will be addressed through individual attention and a variety of instructional approaches.

PREREQUISITES: Completion of Math 052 or UUP Department permission (assessment may be required).
 COREQUISITES:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: MATH 051
- (b) Cross-listed with: _____
- (c) Cannot take: _____ for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 45

STRUCTURE OF HOURS:

Lectures: _____ Hrs
 Seminar: _____ Hrs
 Laboratory: _____ Hrs
 Field experience: _____ Hrs
 Student directed learning: _____ Hrs
 Other (specify): Individual 45 Hrs
 and/or small group work

TRAINING DAY-BASED INSTRUCTION:

Length of course: _____
 Hours per day: _____

OTHER:

Maximum enrolment: 24
 Expected frequency of course offerings: Every semester
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No
 WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No
 TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

Course designer(s): <u>Jean Atkinson, Leonne Beebe, Barbara Stirskey, Greg St. Hilaire, Trudy Archie</u>	
Department Head: <u>Sue Brigden</u>	Date approved: <u>March 2010</u>
Supporting area consultation (UPACA1)	Date of meeting: <u>April 16, 2010</u>
Curriculum Committee chair: <u>Greg St. Hilaire</u>	Date approved: <u>March 2010</u>
Dean/Associate VP: <u>Karen Evans</u>	Date approved: <u>March 2010</u>
Undergraduate Program Advisory Committee (UPAC) approval	Date of meeting: <u>April 23, 2010</u>

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. read and write decimals to the ten-thousandths place
2. add, subtract, multiply, and divide decimals
3. compare decimal values
4. round decimal numbers to a given place value
5. find the least common multiple of a group of numbers
6. find the greatest common factor of a group of numbers
7. relate common fractions to decimals
8. add, subtract, multiply, and divide fractions
9. create improper, proper, and mixed fractions
10. simplify fractions
11. create equivalent fractions using proper, improper, and mixed numbers
12. estimate answers to a variety of problems
13. convert between fractions and decimals
14. solve word problems with decimals, fractions, and mixed numbers
15. solve prime number factorization
16. define key words such as product, reciprocal, prime, and composite

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Methods will vary with instructor, but may include mini lessons, individual assistance, group activities, assignments, demonstrations, group problem-solving, math labs, and computer-assisted learning.

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Examination(s) Portfolio assessment Interview(s)

Other (specify):

PLAR cannot be awarded for this course for the following reason(s): Not appropriate

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Hutchison, D., Berman, B., & Baratto, S. (2007) Prealgebra: An Integrated Equations Approach (2nd Edition).
McGraw-Hill Ryerson.
Instructor-developed materials

SUPPLIES / MATERIALS:

Calculator

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Assignments	15%
Chapter tests	50%
Final Exam	35%

Weightings will vary with individual instructors, but assessment methods may include assignments, lab activities, unit tests, and a final examination.

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

Decimal operations
Fraction operations
Introduction to prime factors and prime factorization