



COURSE IMPLEMENTATION DATE: September 2009
 COURSE REVISED IMPLEMENTATION DATE: May 2013
 COURSE TO BE REVIEWED: March 2016
(six years after UEC 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 062	Upgrading and University Preparation	1.5
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
	Fundamental Math III	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

This is the third of four basic mathematics courses. At this level, students will be introduced to ratios, proportions, percentages, graphs, and tables. Students will solve problems that involve finding a missing term as well as using metric conversions. Student learning strategies include building confidence, working independently, and locating and correcting errors.

PREREQUISITES: Completion of Math 051 or 053 or UUP Department permission (assessment may be required)

COREQUISITES:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: Math 061
- (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): 45 Hrs

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>Leonne Beebe, Darlene Carson, Greg St. Hilaire, Judy Larsen, Barbara Stirskey,</u>	Date approved: _____
Department Head: <u>Trudy Archie</u>	Date of meeting: _____
Supporting area consultation (Pre-UEC)	Date approved: _____
Curriculum Committee chair: <u>Anna Kuczynska</u>	Date approved: _____
Dean/Associate VP: <u>Sue Brigden</u>	Date of meeting: <u>April 26, 2013</u>
Undergraduate Education Committee (UEC) approval	

LEARNING OUTCOMES:

1. Define key words and symbols such as ratio, rate, proportion, percent, commission, tax, discount, and simple interest.
2. Recognize percent notation as a denominator of 100.
3. Determine if a proportion is true.
4. Solve a proportion for a missing term.
5. Write relationships between quantities as a ratio, rate, or percent.
6. Convert between a decimal fraction and a percent.
7. Convert between a common fraction and a percent.
8. Find a percent of a number.
9. Find what percent one number is of another.
10. Find a number when a percent is given.
11. Apply ratio and proportion to solve various problems, including percent increase and decrease.
12. Convert measurements within the metric system.

Students will meet the outcomes as identified in the Adult Basic Education Articulation Handbook www.aved.gov.bc.ca/abe/docs/handbook.pdf, appropriate for level 6.

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:]

Adult Fundamental Literacy Math Book 6
Hutchison, D, Berman, B, & Baratto, S. (2007) Prealgebra: An Integrated Equations Approach (2nd Edition). McGraw-Hill
Ryerson
Instructor-developed materials
www.mathzone.com

SUPPLIES / MATERIALS:

Scientific calculator

STUDENT EVALUATION:

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

Chapter tests 60%
Final Exam 40%

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

COURSE CONTENT:

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

Ratio relationships
Percent calculations
Simple interest
Conversions among fractions, decimals, and percents
Metric conversions