



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

Table with 3 columns: COURSE NAME/NUMBER (Math 053), FACULTY/DEPARTMENT (Upgrading and University Preparation / Fundamental Math 11), UFV CREDITS (1.5). COURSE DESCRIPTIVE TITLE: Fundamental Math 11

CALENDAR DESCRIPTION:

This is the second of four basic mathematics courses. At this level, students will be introduced to operations on decimals and fractions. Estimation, measurements, 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): 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 [X] No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) [] Yes [X] No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: [] Yes [X] No

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

LEARNING OUTCOMES:

Common Fractions

1. Define key words such as product, reciprocal, prime, and composite.
2. Find prime factorization of a number.
3. Find the greatest common factor and the least common multiple of a group of numbers.
4. Identify proper and improper common fractions, mixed numbers, and equivalent fractions.
5. Simplify common fractions.
6. Write equivalent common fractions.
7. Multiply and divide common fractions.
8. Estimate answers to a variety of multiply/divide common fraction problems.

Decimal Fractions

1. Read and write decimal fractions to the ten-thousandths place value.
2. Compare decimal fraction values.
3. Round whole numbers and decimal fractions up to any given place value.
4. Add, subtract, multiply and divide decimal fractions.
5. Relate common fractions to decimal fractions.
6. Convert between common fractions and decimal fractions.
7. Solve word problems involving decimal fractions, common fractions, or mixed numbers.
8. Estimate answers to a variety of decimal fraction problems.

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 4 and 5.

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 might be:]*

Adult Fundamental Literacy Math Books 4 and 5
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:

Calculator

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

Chapter tests 60%
Final exam 40%

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

Introduction to prime factors and prime factorization
Fraction operations
Decimal operations