**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>
<thead>
<tr>
<th>Math 062</th>
<th>Upgrading and University Preparation</th>
<th>1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE NAME/NUMBER</td>
<td>FACULTY/DEPARTMENT</td>
<td>UFV CREDITS</td>
</tr>
<tr>
<td>Fundamental Math III</td>
<td></td>
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<tr>
<td>COURSE DESCRIPTIVE TITLE</td>
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**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)

**SYNONYMOUS COURSE(S):**
(a) Replaces:
(b) Cross-listed with:
(c) Cannot take: for further credit.

**TOTAL HOURS PER TERM:**

<table>
<thead>
<tr>
<th>Lectures:</th>
<th>Hrs</th>
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<tbody>
<tr>
<td>Seminar:</td>
<td>Hrs</td>
</tr>
<tr>
<td>Laboratory:</td>
<td>Hrs</td>
</tr>
<tr>
<td>Field experience:</td>
<td>Hrs</td>
</tr>
<tr>
<td>Student directed learning:</td>
<td>Hrs</td>
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<tr>
<td>Other (specify):</td>
<td>45 Hrs</td>
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</table>

**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):**
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 approved: 

Date approved: 

Date approved: 

Date of meeting: April 26, 2013
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
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