



COURSE IMPLEMENTATION DATE: September 2009  
 COURSE REVISED IMPLEMENTATION DATE: \_\_\_\_\_  
 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

<b>MATH 076</b>	<b>Upgrading and University Preparation</b>	<b>1.5</b>
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
<b>Intermediate Math II</b>		
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

Students will review primes, factors, multiples, integers, formulas, expressions, equations, and polynomials. Course topics include geometry, statistics, graphing, introduction to algebra and trigonometry, powers, roots, and scientific notations.

PREREQUISITES: MATH 075 or UUP Department permission (assessment may be required)  
 COREQUISITES:  
 PRE or COREQUISITES:

**SYNONYMOUS COURSE(S):**

- (a) Replaces: MATH 072
- (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 and **45** Hrs  
 small group. \_\_\_\_\_

**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>Greg St. Hilaire, Barbara Stirskey, Jean Atkinson, Trudy Archie</u>	
Department Head: <u>Sue Brigden</u>	Date approved: <u>February 2009</u>
Supporting area consultation (UPACA1)	Date of meeting: <u>February 6, 2009</u>
Curriculum Committee chair: <u>Greg St. Hilaire</u>	Date approved: <u>March 2009</u>
Dean/Associate VP: <u>Karen Evans</u>	Date approved: <u>March 2009</u>
Undergraduate Program Advisory Committee (UPAC) approval	Date of meeting: <u>March 27, 2009</u>

**LEARNING OUTCOMES:**

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

1. define and use key vocabulary words such as, integer, rational number, co-ordinates, and polynomial
2. apply the concepts of factors and multiples to solve complex fractions
3. solve problems involving variable expressions
4. evaluate and simplify variable expressions
5. solve rational number equations containing variables
6. interpret and use formulae for calculation of area and volume
7. perform operations using powers, roots, and scientific notation
8. use the Cartesian coordinate system to graph linear equations
9. find the slope of a straight line using rise and run
10. use basic trigonometric ratios (sine, cosine, and tangent) and the Pythagorean theorem to solve problems involving right triangles
11. use the basic operations and exponential and trigonometric functions on a scientific calculator

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

Methods will vary with the 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):

**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 (2<sup>nd</sup> Edition).  
McGraw-Hill Ryerson  
Instructor-developed materials

**SUPPLIES / MATERIALS:**

Scientific calculator  
Geometry set

**STUDENT EVALUATION:**

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

- |                      |          |
|----------------------|----------|
| 1. Assignments       | 0 – 25%  |
| 2. Quizzes and tests | 25 – 50% |
| 3. Mid-term exam     | 20 – 30% |
| 4. Final Exam        | 30 – 40% |

**COURSE CONTENT:**

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

Vocabulary  
Geometric and trigonometric measurement  
Statistics  
Algebra  
Powers, roots, and scientific notation  
Graphing