



AFM 007F INTERMEDIATE MATHEMATICS

Instructor Information

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Office Hours: Room 111 Monday to Thursday 8:30-9:00 am. and 3:00-4:00 pm.
Fridays by appointment.

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Course Description

AFM 007 will apply a review of whole numbers, fractions and decimals to all operations (addition, subtraction, multiplication, division) on integers, signed fractions and signed decimals including order of operations. Students will apply their number sense to the solving of ratio, proportion and percent applications as well as the interpretation of data presented in various charts or graphs. Algebra will be explored through the solving of one step linear equations. Perimeter and area of two dimensional shapes will be explored and applied to the volume of three dimensional figures, with a focus on circles and triangles. Pre-requisites: none Co-requisites: none Credits: 6.00
Credit type: Percent, 50% Pass
Duration: September 4th to December 12th 2013.
Location: Fort Chipewyan Campus Room 111
Class Schedule: Monday to Thursday 9:00 to 10:50 am.

Teaching and Learning Methodologies

This course will be taught in a multi-level setting. Instruction will be individual and group.

Required Resources

Students must supply:

- Loose leaf lined paper
- Binder
- Pencils (mechanical pencils recommended)
- Eraser
- Scientific calculator

The course text *Basic College Mathematics with Early Integers* will be available on loan from the college.

Course Outcomes

Upon completion of AFM007, the successful student will:

- * Understand and apply mathematical rules appropriately
- * Comprehend and correctly use terminology associated with course topics
- * With and without a calculator:
 - * add, subtract, multiply and divide integers
 - * add, subtract, multiply and divide signed fractions
 - * add, subtract, multiply and divide signed decimals
- * Solve ratio problems
- * Solve percent problems
- * Interpret charts and graphs
- * Solve one-step linear equations
- * calculate perimeter and area of two-dimensional shapes
- * Calculate volume of three-dimensional shapes including circles and triangles
- * Utilize a problem-solving model to generate a set of ordered steps to solve problems
- * Organize written work effectively to facilitate problem-solving
- * Relate learned mathematical rules and skills to new concepts

Evaluation

Credit Type: Percent, 50% Pass

Tests and assignments	50%
Mid-Term Exam	15%
Participation	15%
Final Examination	<u>20%</u>
TOTAL	100%

Keyano College Academic Regulations

Academic regulations regarding examinations, transfers, grades, policies, student rights and responsibilities, financial aid and awards can be found in the printed Keyano College calendar or on the Keyano website

Important Dates

September 2 Monday	College closed (Labour Day)
September 3 Tuesday	Orientation Day
September 4 Wednesday	Fall semester begins for academic programs
September 10 Tuesday	Last day to add for academic programs. Fall semester fees due
September 11 Wednesday	Fall late fee applied
September 17 Tuesday	Last day to drop for academic programs. Last day to waive Health and Dental
September 20 Friday	Fall Awards application deadline
September 27 Friday	Deadline to apply for Cooperative Education for first work term
October 11 Friday	Last day to withdraw with a 50% refund
October 14 Monday	College closed (Thanksgiving Day)
October 25 Friday	Last day to withdraw without academic penalty
October 30 Wednesday	Last day to withdraw from Co-operative Education for first work term
November 5 Tuesday	Fall Awards Celebration
November 11 Monday	No classes (Remembrance Day)
December 6 Friday	Last day of classes for Certificate, Diploma, and University programs
December 9-18	Final Exams for Certificate, Diploma, and University programs
December 12 Thursday	Last day of classes for Academic Upgrading and Childhood Studies
December 13-18	Final Exams for Academic Upgrading
December 20 Friday	End of fall semester for academic programs.
December 25 – 31	College closed (Christmas Break)

The above dates can be found in the printed Keyano College calendar or on the Keyano website.

Performance Requirements

Cell Phone Use

Keyano Fort Chip is implementing a campus-wide policy requiring cell phones to be turned off during classes.

Student Attendance

The most important things students can do to succeed are to attend every class and participate actively. Class attendance maximizes a student's learning experience. Attending class is a good way to keep informed of matters relating the administration of the course (e.g., the timing of

assignments and exams). Ultimately, you are responsible for your own learning and performance in this course. Please refer to pages 32 to 36 of the Credit Calendar.

Student Preparation

It is the responsibility of each student to be prepared for all classes. Students who miss classes are responsible for the material covered in those classes and for ensuring that they are prepared for the next class, including the completion of any assignments and/or notes that may be due.

Academic Misconduct (pages 33-34 of the Credit Calendar)

Please pay careful attention to the information that follows on Inappropriate Academic Behaviour such as cheating and plagiarism. The penalty for such behaviour is a zero on the assignment and no opportunity to resubmit the assignment.

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:

- * Plagiarism or the submission of another person's work as one's own
- * The use of unauthorized aids in assignments or examinations
- * Unauthorized collaboration with others in preparing work
- * The deliberate misrepresentation of qualifications
- * The willful distortion of results or data
- * Substitution in an examination by another person

Penalties for academic offences may range from a verbal reprimand to dismissal from the College, and in certain circumstances may involve legal action.

Accommodation for Students with Disabilities

The College will provide reasonable accommodation to students with disabilities in order to promote academic success. If you require accommodation, contact the Learner Assistance Program (LAP) Office at 780-792-5608 or speak to an instructor or the director.

MathXL website

The MathXL website contains excellent help videos for all topics covered in the textbook. . You will receive a link and access code with your textbook.

Course Schedule

These topics were introduced in Math 006. They will be explored in greater depth in this course. This schedule is a guideline; some variation from it is to be expected.

Week 1	Whole Numbers Review
Week 2 & 3	Integers
Week 4	Fractions: Multiplying and Dividing
Week 5 & 6	Fractions and Mixed Numbers: start Decimals
Week 7	Review and Mid-term exam
Week 8	Ratios
Week 9	Percent
Week 10	Data, Graphs and Statistics
Week 11	Measurement
Week 12	Geometry
Week 13	Algebra
Week 14	Review and Practice Exam