

ACADEMIC FOUNDATIONS PROGRAM

FORT CHIPEWYAN

WINTER 2013/2014 (January)

MATH: AFM 009 ADVANCED LEVEL Room FC-114 Lecture F

Instructor: Maureen Clarke

Office Hours:	Monday	9:00 – 9:50	3:00 – 3:50
	Tuesday	9:00 – 9:50	
	Wednesday	2:00 – 2:50	
	Thursday	2:00 – 2:50	

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Home Phone: 697 – 3923

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mauclarke@yahoo.com

Course Hours:	Monday	10:00 – 10:50	11:00 – 11:50
	Tuesday	10:00 – 10:50	11:00 – 11:50
	Wednesday	9:00 - 9:-50	10:00 – 10:50
	Thursday	9:00 – 9:50	10:00 – 10:50
	Friday		

Hours of Instruction: 8 50-minute classes per week

Credits: 6

Length of course: 16 weeks Jan 6 – April 30

Prerequisite: AFM 007

Text: Pearson Custom Mathematics for Canadians
 Pearson Education Company
 ISBN 13: 978-00558-63139-0

Important Dates for Academic Schedule:

Jan 1	College closed – New Year's Day
Jan 6	Winter semester begins
Jan 6	First day of class for students
Jan 10	Last day to add classes
	Winter semester fees due
Jan 13	Late fee applied
Jan 17	Last day to drop course(s) for academics

Jan 31	Last day to withdraw from course(s) with 50% refund of tuition fees
Feb 17	College closed – Family Day
Feb 24 – 28	Reading Week – No classes for academic programs
Mar 7	Last day to withdraw without academic penalty
April 18	College closed – Good Friday
April 21	College closed – Easter Monday
April 23	Last day of class
April 25 - 30	Final Exams
April 30	End of winter semester for academic programs
May 2	Fort Chipewyan Campus Graduation

Course Description:

AFM will review all four operations (addition, subtraction, multiplication and division) of rational numbers, including rational and irrational square roots. Other topics will include algebra, exponent laws, algebraic expressions, polynomial operations, solving multi-step linear equations, graphing linear equations in two variables and solving linear inequalities in one variable. A review of two and three dimensional measurement will be applied to volume and surface area, the Pythagorean Theorem, and circle properties. Number sense will be applied to the application of probability in our society.

Course Outcomes:

At the completion of the course, students will be able to:

- Confidently perform operations (add, subtract,, multiply and divide) rational numbers
- Find rational and irrational square roots
- Comprehend and use terminology associated with course topics
- Know and apply exponent laws
- Simplify algebraic expressions
- Solve multi-step linear equations
- Solve linear inequalities in one variable
- Understand volume and surface area
- Apply the Pythagorean Theorem to solve right triangles
- Comprehend properties of circles
- Use applications involving probability
- Apply circle properties to solve problems
- Utilize problem solving models to generate a set of ordered steps to solve problems
- Organize written work to facilitate problem solving
- Relate learned mathematical rules and skills to new concepts

Course Content:

UNIT 1	Signed Numbers	pp. 29 – 79	Jan 6 – 17
UNIT 2	Introduction to Algebra	pp. 85 – 142	Jan 20 – 31
UNIT 3	Solve and Graph Linear Inequalities	pp. 147 – 160	Feb 3 - 14
UNIT 4	Percent	pp. 211 – 274	Feb 18 – March 7
	MIDTERM EXAM		
UNIT 5	Powers and Polynomials	pp. 279 – 312	March 10 – 21
UNIT 6	Measurement	pp. 375 – 416	March 24 – April 4
UNIT 7	Geometry	pp. 417 – 520	April 7 – 15
	REVIEW	April 16 – 17	
	FINAL EXAM	TBA	

Evaluation:

Attendance	5%
Assignments	35%
Tests & quizzes	20%
Midterm	20%
Final Exam	20%
Total	100%

Grade Point:

Descriptor	Alpha Grade	4.0 Scale	Percentage
Excellent	A ⁺	4.0	91 – 100
	A	3.8	85 – 90
	A ⁻	3.7	80 – 84
Good	B ⁺	2.7	76 – 79
	B	2.7	73 – 75
	B ⁻	2.7	70 – 72
Satisfactory	C ⁺	2.3	67 – 69
	C	2.0	64 – 66
PROGRESSION PASS	C ⁻	1.7	60 – 63
Poor	D ⁺	1.3	57 – 59
MINIMUUM PASS	D	1.0	50 – 56
Failure	F	0,0	0 – 49

Overall Expectations:

Please turn off cell phones, MP3 players and any other electronic devices.

Assignments: Assignments must be dated and submitted to the instructor no later than 4:00 pm on the day on which the assignment is due. Late assignments will be accepted during the following week but a penalty of 2% per date to a maximum of 10% will be deducted from the assignment mark; after this extension, a zero will be awarded for the assignment. Exemptions for assignments may be granted in exceptional circumstances beyond the control of the student. A 5% bonus mark will be given to all assignments that are turned in on time.

Punctuality: Punctuality is important. Students are expected to be ready to begin work when the class is scheduled to begin. Therefore, students are encouraged to arrive at class a minute or two early so that they may organize their working materials by starting time. Late arrival is detrimental to the student and inconsiderate of the instructor and other students. Arrival in good time is associated with success and is considerate of the instructor and other students.

Attendance: Students are expected to attend all classes. Should a student miss a class for any reason, it is his/her responsibility to cover the work missed and be ready for the next class.

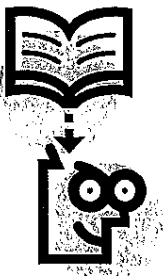
If you want to be assured of success in this course, the following three things will most often grant that to you.

1. Attend every day and get involved in the class. When you can't attend, cover the work done anyway.
2. Ask a question when you do not understand the work and keep asking until you get an explanation you can understand. Feel free to ask for help from the Skill Center, your peers and the instructor. Remember that the Skill Center is for "support", not to "teach" you course content due to lack of attendance.
3. Do all of the daily work given or give it your very best effort and get help with the parts you are unable to complete.

STUDENTS RIGHTS AND RESPONSIBILITIES

Students should be aware of their rights and responsibilities as laid out in the Keyano College Credit Calendar 2013 – 2014. In order to "refrain from unduly disturbing, disrupting or otherwise interfering with studies..." (KCCC 2013 – 2014, p. 36 - 40) students should turn cell phones and pagers off when they come to class, and refrain from bringing children or other visitors to class.

Learner Assistance Program (LAP)



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If you have been diagnosed with a Learning Disability in the past, or you feel that you would benefit from some assistance from a Disabilities Counsellor, please call our office 780-792-5608 to book an appointment. Services and accommodations are intended to assist you in your course, while maintaining the academic standards of Keyano College. We can be of assistance to you in disclosing your disability to your instructor, receiving accommodations, and your overall a success at Keyano College.

HAVE A GREAT SEMESTER