

Mathematics 135-001

Career Algebra

Instructor: Lansdowne Office:	James Stevenson Ewing 342B	Ph#:250-370-3303	E-mail:	jstevenson@camosun.bc.ca
		Additional Office Hours by	Appointm	ent
Important Dates:	Sept 3 Sept 17 Nov 4 Dec 8 Dec 9-17	First day of classes for Fee Deadline Withdrawal Deadline Last day of classes for Final Exam Period	r Fall tern Winter te	n erm

1. Intended Learning Outcomes

This course provides the algebraic skills required for programs and courses including Business diploma programs, the Criminal Justice program, and elementary statistics. Topics include real numbers; integer and rational exponents; linear equations and inequalities; function notation; linear f unctions; and systems of linear equations. [3 Credits] Source: Camosun College 2011/2012 Calendar http://camosun.ca/learn/calendar/2012/web/math.html

2. Course Materials and Support

Required Materials:

- a) MATH 135 Career Algebra , Custom Edition, pearson, 2011. This resource includes a student solution manual.
- b) The only calculator allowed on tests and the final exam is the Sharp EL-531 scientific calculator.

Math Labs: Ewing 342 & 224 (LANS) and Tec142 (INT): These drop-in centres are available for you to work on math homework and to seek free help from the tutor on staff. See the hours posted on the math lab doors (most current) or go to <u>http://camosun.ca/learn/programs/math/labs.html</u>.

Study Tips: It is recommended that approximately 3-6 hours per week be spent studying for this course outside of class time. Find a study buddy to discuss math problems and use the math labs.

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at http://camosun.ca/

3. Exit Grade: A grade of C+ (65%) or better in Math 135 is necessary to continue into all Business Diploma programs. A grade of C or better is needed for Math 116 (Elementary Statistics).

4. Basis of Student Assessmer	nt (Grading)
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4. Basis of Student	Assessment	(Gradir	ng)							
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	0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
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Ψ success. To view the policy, see the webpage <u>http://camosun.ca/about/policies/education-academic/e-1-</u> programming-&-instruction/e-1.1.pdf

	REVIEW	
R.1	SIMPLIFY FRACTIONS	
R.2	ADD AND SUBTRACT FRACTIONS	
R.3	MULTIPLY AND DIVIDE FRACTIONS	
R.4	DECIMALS	
R.5	PERCENT , ROUNDING & ESTIMATING	
R.6	PROBLEM SOLVING	
	ASSIGNMENT & TEST #1	
	CHAPTER 1	
1.1	ADDING REAL NUMBERS	
1.2	SUBTRACTING REAL NUMBERS	
1.3	MULTIPLY & DIVIDE REAL NUMBERS	

1.4	EXPONENTS
1.5	ORDER OF OPERATIONS
1.6	DISTRIBUTIVE PROPERTY
1.7	COMBINING LIKE TERMS
1.8	SUBSTITUTION
1.9	GROUPING
	ASSIGNMENT #2

	CHAPTER 2
2.1	ADDITION PRINCIPLE
2.2	MULTIPLICATION PRINCIPLE
2.3	ADDITION & MULTIPLICATION PRINCIPLE TOGETHER
2.4	EQUATIONS WITH FRACTIONS
2.5	FORMULAS
2.6	INEQUALITIES
	ASSINMENT #3 & TES T#2

	CHAPTER #3
3.1	TRANSLATING ENGLISH TO ALGEBRAIC EXPRESSIONS
3.2	WORD PROBLEMS
3.3	WORD PROBLEMS COMPARISONS
3.4	WORD PROBLEMS: MONEY & %
3.5	WORD PROBLEMS: GEOMETRY
3.6	WORD PROBLEMS: INEQUALITIES
	ASSIGNMENT #4

	CHAPTERR #4
4.1	RULES OF EXPONENTS
4.2	NEGATIVE EXPONENTS & SCIENTIFIC NOTATION
4.3	FUNDAMENTAL POLYNOMIAL OPERATIONS
4.4	MULTIPLY POLYNOMIALS
4.5	MULTIPLY POLYNOMIALS: SPECIAL CASESA
4.6	DIVIDING POLYNOMIALS
	ASSIGNMENT #5 & TEST #3

	GRAPHING & FUNCTIONS
6.1	RATIONAL EXPRESSIONS
6.2	GRAPHING
6.3	SLOPE

6.4	WRITE AN EQUATION OF A LINE
6.5	GRAPH INEQUALITIES
6.6	FUNCTIONS
	ASSIGNMENT #5

	SYSTEMS OF EQUATIONS
7.1	SOLVING EQUATIONS WITH TWO VARIABLES; GRAGHING
7.2	SOLVING EQUATIONS WITH TWO VARIABLES: SUBSTITUTION
7.3	SOLVING EQUATIONS WITH TWO VARIABLES: ELIMINATION
7.4	REVIEW
7.5	WORD PROBLEMS
	ASSIGNMENT #7 & TEST #4