Mathematics 135 001
Career Algebra
Fall 2015

1. Instructor Information and Important Dates

Instructor: Gemma Cuizon
Office: CBA 156
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Website: https://sites.google.com/site/cuizon37/
Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:50 pm - 10:50 pm			Office Hours CBA 156		Office Hours CBA 156
11:00 am-12:50 pm			Math 135_001 PISE 329		Math 135_001 PISE 329

Important Dates:

September 9	First day of Math 135 class
September 22	Fee deadline
October 12	Thanksgiving Day – College closed
November 9	Last day to withdraw from the course or change to audit
November 11	Remembrance Day – College closed
December 11	Last day of instruction
December 14 – 22	Final Exam period (No exam on Sunday, Dec. 20)

2. Intended Learning Outcomes

(3 credits) This course may be used for entry into business programs, the criminal justice program, elementary education, and elementary statistics. It is also a good choice for students who want to refresh their skills before tackling a higher level mathematics course. Topics include a brief review of fractions, decimals, percentages and signed numbers; solving linear equations and inequalities in one variable; graphing linear equations and inequalities in two variables; function notation; systems of linear equations; integer and rational exponents; and fundamental polynomial operations. Camosun College calendar
http://camosun.ca/learn/calendar/current/web/math.html

3. Exit Grade
A grade of C+ (65%) or better is needed for Business Programs at Interurban, Math 112, 113 or 109. A grade of C or better is needed for Math 116 or 137. Note that Math 135 cannot be used by BBA students to satisfy the UT math requirement altahough it can satisfy pre-requisites.

4. Required Materials
a) Career Algebra , Tobey, Slater, Blair, Crawford, 1st Custom Edition, Pearson, 2013.
b) The only calculator allowed on tests and the final exam is the Sharp EL-531 scientific calculator.

Calculators will not be allowed on the first test.

5. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

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 http://camosun.ca/learn/programs/math/labs.html .
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.

6. Basis of Student Assessment and Grading

Assignments: There are 4 assignments. A handout will be provided at least a week before the due date. Full solutions are required. Assignments are due **by 8pm** on the designated day (see pacing schedule). Assignment keys will be posted on the website. Late assignments will NOT be accepted. There are no dropped assignments.

Tests: There are 4 tests. The dates and topics are on the pacing schedule. No calculators are allowed for Test 1.   If you miss a test for any reason a zero will be assigned unless you make alternate arrangements with your instructor before the test. There are no dropped tests.

Grade Calculation: The final grade will be calculated according to the following breakdown:
Assignments and quick quizzes   20%
Tests: 30%
Comprehensive Final Exam (with no calculator section)   50%

Grade Scale:

0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
F	D	C	C+	B–	B	B+	A–	A	A+

For information on Camosun College's grading policy, see the webpage
http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf

7. Course Content and Schedule

Section		Recommended Exercise Questions (Do odds only where applicable. Answers in back of text.)
	Review Chapter of Arithmetic Skills	
R.1	Simplify Fractions	11,17,19,33,41,45,47,57
R.2	Add And Subtract Fractions	3,15,19,25,37,43,53,55,73,75
R.3	Multiply And Divide Fractions	3,13,15,17,19,21,27,35,37,51,57
R.4	Decimals	5,17,23,31,35,45,51,53,75
R.5	Percent , Rounding & Estimating	5,9,15,17,27,33,35,41,43,51,61
R.6	Problem Solving	1,3,5,13,15
Test 1		
	Chapter 1 Real Numbers and Variables	
1.1	Adding Real Numbers	1,3,7,11,21,25,29,41,67,73
1.2	Subtracting Real Numbers	3,15,19,23,45,57,63
1.3	Multiply & Divide Real Numbers	3,15,19,27,35,39,47
1.4	Exponents	5,13,15,23,25,29,39,43
1.5	Order Of Operations	5,9,11,15,21,25,29
1.6	Distributive Property	7,9,15,17,21,23,25,31,41
1.7	Combining Like Terms	5,11,23,27,33,35,43
1.8	Substitution	7,13,17,25,33,39,43,47,55
1.9	Grouping	1,7,9,11,13,17,25
	Chapter 2 Equations and Inequalities	
2.1	Addition Principle	15,21,27,29,39,43
2.2	Multiplication Principle	3,5,9,17,31,39,45,49
2.3	Addition &Multiplication Principle Together	3,7,11,17,23,27,29,37,41,47
2.4	Equations With Fractions	1,3,9,11,15,17,21,25,31,33,41,43,45
2.5	Formulas	3,5,7,9,11,13,15,23,25,31,33,39,43
2.6	Inequalities and Compound Inequalities*	7,23,25,27,33,35,37,47,51,53,57,59, Handout*
Test 2		
	Chapter 3 Solving Applied Problems	
3.1	Translating English To Algebraic Expressions	3,9,17,21,25,27,29
3.2	Word Problems	5,9,11,15,19,25,31
3.3	Word Problems Comparisons	1,5,9,11,15
3.4	Word Problems: Money & %	1,3,7,9,11,13,15,19,25
3.5	Word Problems: Geometry	7,9,13,15,23,29
3.6	Word Problems: Inequalities	3,5,7,15,17,21,23
	Chapter 4 Exponents and Variables	
4.1	Rules Of Exponents	5,7,11,17,19,23,25,31,39,41,49,53,61,65,69,73,77,81,83
4.2	Negative Exponents & Scientific Notation	1,3,5,7,9,11,13,15,17,19,25,29,35,37,39,43,47,49,61

	Rational Exponents	handout
4.3	Fundamental Polynomial Operations	5,7,11,13,19,21,27,31,33
4.4	Multiply Polynomials	1,3,5,7,9,25,29,33,37,41,45,49,51
4.5	Multiply Polynomials: Special Cases	3,5,9,13,17,23,31,37,41,43
4.6	Dividing Polynomials	1,5,9,11,17,19,23
Test 3		
	Chapter 5 Graphing & Functions	
5.1	Rectangular Coordinate System	5,9,19,21,23,25,29,35,39
5.2	Graphing Linear Equations	1,3,5,13,15,17,21,23,25,27,29,33
5.3	Slope	1,3,9,11,17,19,25,29,33,37,41,47,51,55
5.4	Write the Equation of a Line	1,3,9,11,21,23,27,31,33,37
5.5	Graph Inequalities	3,5,9,13,15,17
5.6	Functions	5,7,11,15,19,23,29,31,33,35,39,41
	Chapter 6 Systems of Equations	
6.1	Solving Equations With Two Variables; Graphing	1,3,7,11,19,21,25
6.2	Solving Equations With Two Variables: Substitution	1,5,9,11,29,35
6.3	Solving Equations With Two Variables: Elimination	5,13,15,27,33,39
6.4	Review of Methods	5,11,17,21,27
6.5	Word Problems	1,5,13,15,17,21
Test 4		

Math 135 Lectures (2 hrs) [Fall 2015]

Sept	7	8	9 R.1, R.2, R.3	10	11 R.4, R.5, R.6
	14	15	16 **Assign 1 due** 1.1, 1.2, 1.3	17	18 Review(R.1-R.6) 1.4, 1.5
	21	22	23 **Unit 1 Test** 1.5, 1.6	24	25 1.7, 1.8, 1.9
	28	29	30 2.1, 2.2, 2.3	1	2 2.4, 2.5
Oct	5	6	7 2.5, 2.6, Handout	8	9 **Assign 2 due** Review(Ch.1&2) 3.1, 3.2
	12 **Thanksgiving Day – College Closed**	13	14 3.2, 3.3, 3.4	15	16 **Unit 2 Test** 3.4, 3.5
	19	20	21 3.5, 3.6	22	23 4.1, 4.2, Handout
	26	27	28 4.3, 4.4, 4.5	29	30 4.5, 4.6
Nov	2	3	4 4.6, 5.1	5	6 **Assign 3 due** Review(Ch.3&4) 5.2, 5.3

9	10	11 **Remembrance Day – College Closed**	12	13 5.3, 5.4
16	17	18 **Unit 3 Test**	19	20 5.4, 5.5
23	24	25 5.5, 5.6	26	27 6.1, 6.2
Dec 30	1	2 6.3, 6.5	3	4 **Assign 4 due** Review(Ch.5&6)
7	8	9 **Unit 4 Test**	10	11 **Final Exam Review**
14 Final Exam Period	15 Final Exam Period	16 Final Exam Period	17 Final Exam Period	18 Final Exam Period
21 Final Exam Period	22 Final Exam Period	22	23	24