



Mathematics 135 002
Career Algebra
Fall 2017

1. Instructor Information and Important Dates

Instructor: Gemma Cuizon
Office: CBA 156 (Interurban)
E-mail: cuizon@camosun.bc.ca
Website: <https://sites.google.com/site/cuizon37/>
Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 am-10:20 am	Math 139 X01				
10:30 am - 11:30 am	Office Hours CBA 156				Office Hours CBA 156
11:30 pm - 12:20 pm		Math 139 X01	Math 139 X01	Math 139 X01	Math 139 X01
2:30 pm - 3:30 pm	Office Hours CBA 156	Office Hours CBA 156	Office Hours CBA 156	Office Hours CBA 156	
3:30 pm - 5:20 pm	Math 135 002 TB 177	Math 135 001 CC 121	Math 135 002 TB 177	Math 135 001 CC 121	

Important Dates:

September 6 First day of Math 135 class
 September 19 Fee deadline
 October 9 Thanksgiving Day – College closed
 November 7 Last day to withdraw from the course or change to audit
 November 11 Remembrance Day
 November 13 College closed
 December 9 Last day of instruction
 Dec 11 – 19 Final Exam period (No exam on Sunday, Dec. 17)

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. Source: 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 although it can satisfy pre-requisites.

4. Required Materials

- a) Career Algebra , Tobey, Slater, Blair, Crawford, 1st Custom Edition, Pearson, 2013.
- b) Calculators allowed on tests and the final exams are the Sharp EL-531 scientific calculator and the Texas Instruments BA II.
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.

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/>

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

<http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf>

ACADEMIC PROGRESS POLICY

The College has an academic progress policy geared mainly toward "at risk" students, the stated intention for which is to improve a student's likelihood of success. To view the policy, see the webpage

<http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf>

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 right after submission deadline. Late assignments will NOT be accepted.

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.

Grade Calculation: The final grade will be calculated according to the following breakdown:

Assignments	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 Homework (Solutions in back of text)	Textbook page
	Review Chapter of Arithmetic Skills		
R.1	Simplify Fractions	11,17,19,33,41,45,47,57	8
R.2	Add And Subtract Fractions	3,15,19,25,37,43,53,55,73,75	17
R.3	Multiply And Divide Fractions	3,13,15,17,19,21,27,35,37,51,57	26
R.4	Decimals	5,17,23,31,35,45,51,53,75	37
R.5	Percent , Rounding & Estimating	5,9,15,17,27,33,35,41,43,51,61	46
R.6	Problem Solving	1,3,5,13,15	52
Test 1		Chapter Organizer, Review Test	56-61
	Chapter 1 Real Numbers and Variables		
1.1	Adding Real Numbers	1,3,7,11,21,25,29,41,67,73	79
1.2	Subtracting Real Numbers	3,15,19,23,45,57,63	85
1.3	Multiply & Divide Real Numbers	3,15,19,27,35,39,47	94
1.4	Exponents	5,13,15,23,25,29,39,43	100
1.5	Order Of Operations	5,9,11,15,21,25,29	104
1.6	Distributive Property	7,9,15,17,21,23,25,31,41	110
1.7	Combining Like Terms	5,11,23,27,33,35,43	115
1.8	Substitution	7,13,17,25,33,39,43,47,55	121
1.9	Grouping	1,7,9,11,13,17,25	126
		Chapter Organizer, Review	129-133
	Chapter 2 Equations and Inequalities		
2.1	Addition Principle	15,21,27,29,39,43	147
2.2	Multiplication Principle	3,5,9,17,31,39,45,49	153
2.3	Addition & Multiplication Principle Together	3,7,11,17,23,27,29,37,41,47	159
2.4	Equations With Fractions	1,3,9,11,15,17,21,25,31,33,41,43,45	166
2.5	Formulas	3,5,7,9,11,13,15,23,25,31,33,39,43	173
2.6	Inequalities and Compound Inequalities*	7,23,25,27,33,35,37,47,51,53,57,59, Handout	184
Test 2		Chapter Organizer, Review	189-193
	Chapter 3 Solving Applied Problems		
3.1	Translating English To Algebraic Expressions	3,9,17,21,25,27,29	207
3.2	Word Problems	5,9,11,15,19,25,31	215
3.3	Word Problems Comparisons	1,5,9,11,15	221
3.4	Word Problems: Money & %	1,3,7,9,11,13,15,19,25	232
3.5	Word Problems: Geometry	7,9,13,15,23,29	241
3.6	Word Problems: Inequalities	3,5,7,15,17,21,23	248
		Chapter Organizer, Review	252-258
	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	277
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	285
		Handout	
4.3	Fundamental Polynomial Operations	5,7,11,13,19,21,27,31,33	291
4.4	Multiply Polynomials	1,3,5,7,9,25,29,33,37,41,45,49,51	298
4.5	Multiply Polynomials: Special Cases	3,5,9,13,17,23,31,37,41,43	304
4.6	Dividing Polynomials	1,5,9,11,17,19,23	310
Test 3		Chapter Organizer, Review	313-317
	Chapter 5 Graphing & Functions		
5.1	Rectangular Coordinate System	5,9,19,21,23,25,29,35,39	332

5.2	Graphing Linear Equations	1,3,5,13,15,17,21,23,25,27,29,33	343
5.3	Slope	1,3,9,11,17,19,25,29,33,37,41,47,51,55	356
5.4	Write the Equation of a Line	1,3,9,11,21,23,27,31,33,37	363
5.5	Graph Inequalities	3,5,9,13,15,17	367
5.6	Functions	5,7,11,15,19,23,29,31,33,35,39,41	377
		Chapter Organizer, Review	382-390
	Chapter 6 Systems of Equations		
6.1	Solving Equations With Two Variables; Graphing	1,3,7,11,19,21,25	406
6.2	Solving Equations With Two Variables: Substitution	1,5,9,11,29,35	413
6.3	Solving Equations With Two Variables: Elimination	5,13,15,27,33,39	420
6.4	Review of Methods	5,11,17,21,27	427
6.5	Word Problems	1,5,13,15,17,21	433
Test 4		Chapter Organizer, Review	438-443

Math 135 Lectures (2 hrs) [Fall 2017]

Sept	4	5	6 Intro, R.1, R.2	7	8
	11 R.2, R.3, R.4,	12	13 R.5, R.6	14	15
	18 Assign 1 due Review(R.1- R.6) 1.1, 1.2	19 Reminder: Fee deadline	20 1.2, 1.3, 1.4	21	22
	25 Unit 1 Test (Ch. R) 1.4, 1.5	26	27 1.5, 1.6, 1.7	28	29
Oct	2 1.7, 1.8, 1.9	3	4 2.1, 2.2, 2.3	5	6
	9 Thanksgiving Day – College Closed	10	11 2.3, 2.4, 2.5	12	13
	16 2.6, Compound Inequalities (handout), 3.1	17	18 Assign 2 due Review(Ch.1&2) 3.1, 3.2, 3.3	19	20
	23 3.3, 3.4, 3.5	24	25 Unit 2 Test (Ch. 1 & 2) 3.4, 3.5	26	27
Oct/Nov	30 3.5, 3.6, 4.1	31	1 4.1, 4.2, 4.3	2	3

Nov	6 4.4, 4.5, 4.6	7 Reminder: Withdrawal deadline	8 Assign 3 due Review(Ch.3&4) 5.1, 5.2	9	10
	13 College Closed	14	15 5.2, 5.3, 5.4	16	17
	20 Unit 3 Test (Ch. 3 & 4) 5.4, 5.5	21	22 5.5, 5.6, 6.1	23	24
Nov/Dec	27 6.2, 6.3, 6.5	28	29 Assign 4 due Review(Ch.5&6)	30	1
Dec	4 Unit 4 Test	5	6 Finals Review	7	8
	11 Final Exam Period	12 Final Exam Period	13 Final Exam Period	14 Final Exam Period	15 Final Exam Period
	18 Final Exam Period	19 Final Exam Period	20	21	22