



Mathematics 135 002
Career Algebra
Winter 2018

1. Instructor Information and Important Dates

Instructor: Gemma Cuizon
Office: Ewing 342A (Lansdowne) Ph#: (250)370-3303
E-mail: cuizon@camosun.bc.ca
Website: <https://sites.google.com/site/cuizon37/>
Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
1:30 – 3:20	Math 135_002 E348		Math 135_002 E348		
3:30 – 4:20	Office Hours E342A		Office Hours E342A		

Important Dates:

January 8 First day of Math 135 class
 January 22 Fee deadline
 February 12 Family Day – College closed
 February 13 – 16 Reading Break
 February 16 College Conversations Day – College closed
 March 14 Last day to withdraw from the course or change to audit
 March 30 Good Friday – College closed
 April 2 Easter Monday – College closed
 April 12 Last day of instruction
 April 16 – 24 Final Exam period (No exam on Sunday, Apr. 22)

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:

Percent Range	0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
Letter Grade	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
	Rational Exponents*	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 Tentative Pacing Schedule

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

Mar	5 4.1, 4.2, 4.3	6	7 4.3, 4.4, 4.5	8	9
	12 4.5, 4.6	13	14 Reminder: Last day to drop Assign 3 due 5.1, 5.2, 5.3	15	16
	19 5.3, 5.4 Review(Ch.3& 4)	20	21 Unit 3 Test (Ch. 3 & 4) 5.5, 5.6	22	23
	26 5.6, 6.1, 6.2	27	28 6.3, 6.5	29	30
Apr	2 Easter Monday – College closed	3	4 Assign 4 due Review(Ch.5&6)	5	6
Apr	10 Unit 4 Test	11	12 Finals Review	13	14
	16 Final Exam Period	17 Final Exam Period	18 Final Exam Period	19 Final Exam Period	20 Final Exam Period
	23 Final Exam Period	24 Final Exam Period	25	26	27