



**Mathematics 135 002**  
**Career Algebra**  
**Winter 2014**

**1. Instructor Information and Important Dates**

**Instructor:** Gemma Cuizon  
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**Schedule:**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 am-10:20 am	Math 137_001 E346	Math 137_001 E346		Math 137_001 E346	Math 137_001 E346
10:20 am-11:20 am	Office Hours E250	Office Hours E250		Office Hours E250	Office Hours E250
5:00 pm - 5:45 pm		Office Hours E250		Office Hours E250	
6:00 pm - 7:50 pm		Math 135_002 Y227		Math 135_002 Y227	

<b>Important Dates:</b>	January 7	First day of Math 137 class
	January 20	Fee deadline
	February 10	Family Day – College closed
	February 13-14	Reading Break
	February 14	College Conversations Day – college closed
	March 10	Last day to withdraw from the course or change to audit
	April 10	Last day of instruction of Math 137 class
	April 18	Good Friday – college closed
	April 21	Easter Monday - college closed
	April 14-17, 22-25	Final Examination period

**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 although it can satisfy pre-requisites.

### 4. Required Materials

- a) Career Algebra , Tobey, Slater, Blair, Crawford, 1<sup>st</sup> 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.

## 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. 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
<b>Test 1</b>		
	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*
<b>Test 2</b>		
	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
<b>Test 3</b>		
	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
<b>Test 4</b>		

## Math 135 Lectures (2 hrs) [Winter 2014]

1	Jan 6	Jan 7 R.1, R.2, R.3	Jan 8	Jan 9 R.3, R.4, R.5	Jan 10
2	Jan 13	Jan 14 R.6, 1.1, 1.2	Jan 15	Jan 16 <b>Assign 1 due</b> Review(R.1-R.6) 1.2, 1.3	Jan 17
3	Jan 20	Jan 21 <b>Unit 1 Test</b> 1.4, 1.5	Jan 22	Jan 23 1.5, 1.6, 1.7	Jan 24
4	Jan 27	Jan 28 1.7, 1.8, 1.9	Jan 29	Jan 30 2.1, 2.2, 2.3	Jan 31
5	Feb 3	Feb 4 2.3, 2.4, 2.5	Feb 5	Feb 6 2.5, 2.6, 3.1	Feb 7
6	Feb 10 <b>Family Day</b> <b>College Closed</b>	Feb 11 <b>Assign 2 due</b> Review(Ch.1&2) 3.1, 3.2	Feb 12	Feb 13 <b>Reading Break</b>	Feb 14 <b>Reading Break</b> <b>College</b> <b>Conversations</b> <b>Day - college</b> <b>closed</b>
7	Feb 17	Feb 18 <b>Unit 2 Test</b> 3.2, 3.3	Feb 19	Feb 20 3.3, 3.4	Feb 21
8	Feb 24	Feb 25 3.4, 3.5	Feb 26	Feb 27 3.5, 3.6	Feb 28
9	Mar 3	Mar 4 3.6, 4.1, 4.2	Mar 5	Mar 6 4.2, 4.3, 4.4	Mar 7

10	Mar 10	Mar 11 4.4, 4.5, 4.6	Mar 12	Mar 13 4.6, 5.1, 5.2	Mar 14
11	Mar 17	Mar 18 <b>Assign 3 due</b> Review(Ch.3&4) 5.2, 5.3	Mar 19	Mar 20 <b>Unit 3 Test</b> 5.3, 5.4	Mar 21
12	Mar 24	Mar 25 5.4, 5.5, 5.6	Mar 26	Mar 27 6.1, 6.2, 6.3	Mar 28
13	Mar 31	Apr 1 6.4, 6.5	Apr 2	Apr 3 <b>Assign 4 due</b> Review(Ch.5&6)	Apr 4
14	Apr 7	Apr 8 <b>Unit 4 Test</b>	Apr 9	Apr 10 <b>Final Exam</b> <b>Review</b>	Apr 11
15	Apr 14 Final Exam Period	Apr 15 Final Exam Period	Apr 16 Final Exam Period	Apr 17 Final Exam Period	Apr 18 <b>Good Friday</b> <b>College Closed</b>
16	Apr 21 <b>Easter Monday</b> <b>College Closed</b>	Apr 22 Final Exam Period	Apr 23 Final Exam Period	Apr 24 Final Exam Period	Apr 25 Final Exam Period