

School of Access Community Learning Partnerships

Mathematics 052 D19 Intermediate Mathematics 1 Fixed Pace Fall 2014 Course Outline

This course outline is available online at my faculty website. See course descriptions and prerequisites in the college calendar. Important college dates are available at the college website.

Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records.

Instructor Information

Instructor -- Martin Buck

- a) The online classroom is available 24 hours a day and seven days a week. See below for instructor contact info. Google Hangout, Facetime and Skype interactions are available by prior arrangement.
- b) The online classroom is located at http://mathxl.com.
- c) Instructor's faculty website is at http://lwebs.ca
- d) Students are invited to join the instructor's math circle at Google Plus
- e) E-mail, Google Hangout and Facetime: martin@lwebs.ca
 Skype: mbuck_skype

Goal Statement and Intended Learning Outcomes

The goal of Intermediate Mathematics is to enable adult learners to acquire mathematical knowledge, skills, and strategies needed to enter appropriate higher level courses or to satisfy personal or career goals.

Intermediate Mathematics learning outcomes are available at the British Columbia Ministry of Advanced Education Adult Basic Education Articulation Handbook site.

Course Requirements:

- i. An Access Code for our online classroom based on *Developmental Mathematics*, 8th edition, Marvin Bittinger/Judith Beecher. This access code is available for purchase online at the publisher's website -- http://mathxl.com.
 - NOTE: The Access Code also provides access to a plethora of textbook publisher online resources including animations, videos, podcasts and digital pages of the textbook. A hard copy of the text book is NOT required.
 - a) Unrestricted access to an Internet connected computer. See Computer System Requirements at http://mathxl.com/support/system.htm. Make sure your web browser is properly configured by visiting this link and following the instructions there.
 - b) Scientific calculator. The Sharp EL 531W model is the calculator recommended by the Camosun math department.

Prerequisites and Exit Grade: See the Camosun College Calendar.

Course Information

Like the section offered on campus, this online section is <u>mastery based</u>. Unlike the on campus section, it is fixed-paced. That is it must be completed in one term or less. For details on how the online system works, review the information at my <u>faculty website</u>. Instructions on how to gain access to the online classroom are available at <u>this link</u>. When you login to the course, you will see a list of Upcoming Assignments. Click on the Calendar button for a complete list of assignment due dates. You are responsible for regular communication with your instructor as well as logging into the website and completing the assignments before their due dates.

Assignments

All assignments are completed online and are due before 11:59 pm on the designated date. Late assignments will be subject to penalties. Success will come by working on your math every day, 10 to 20 hours per week. The final exam is completed online, but under invigilated or supervised conditions through an invigilator arranged by the student and approved by the instructor.

Please note that the MathXL system keeps track of how much time you devote to each of the assignments. If you miss a due date on a pre or post-test, a score of zero will be applied. Thus it is best to complete assignments well ahead of their due dates. Plan on working at least three assignments ahead of the due dates. That way when life intervenes (e.g., illness, family or work issues), you will have provided yourself an extension to the due dates.

Grade Calculation:	¹ Online Pre and Post-tests	15%
	² Study Plan/Quiz Me Exercises	10%
	³ Unit Tests	50%
	⁴ Final Exam	25%

¹ The mastery level for each pre and post-test is 75% or better.

Standard Grading System (GPA)

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

- **NS** -- Students who do not login to the online classroom by the first day of class and who do not contact the instructor within two working days following the first class with a satisfactory explanation for their absence will be assigned a "NS" grade and their seat will be forfeited.
- **W** -- If you unable to devote the time required to succeed in the course, then you need to officially withdraw to avoid getting an F. See Important Dates link above for the last day to do that.
- I -- A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
- **IP** -- An "in-progress" grade is only given in self-paced courses. If you have not finished the course at the end of the term but have successfully completed at least 3 unit tests that term, then you may request a transfer to a self-paced section. If such a seat is available you will be awarded an IP grade so you can complete the course the next term. NOTE: You may only receive two IP grades for a course; the third time you register for the course, you will be assigned an F if you do not complete the course.

² Complete the assigned 'Quiz Me' exercises to the 75% or better level.

³ Scores less than 75% on a unit test require a rewrite. Unit Tests can only be rewritten once. All test scores are averaged to calculate a final mark. A 10% per day late penalty may apply.

⁴ To pass the course you must score at least 75% on the final exam with at least a 75% overall average. The final exam can only be rewritten once. All test scores are averaged to calculate a final mark.

Course Content

All assignments are completed online at http://mathxl.com by logging in and clicking on the Homework and Tests button. If you have recently completed Math 034, contact your instructor about advanced credit. The Review Unit does not count towards your final grade.

The final exam is completed online, but under invigilated or supervised conditions through an invigilator arranged by the student and approved by the instructor. More details will be found in **Announcements** area of the online classroom at http://mathxl.com.

For specific assignment details and due dates, login to your online classroom at http://mathxl.com. Upcoming assignments are listed on the course homepage. Click on the Calendar button for a list of all assignments and their due dates.

Unit R - Arithmetic Review (no calculator) Unit R Pre-test R.1 Whole Numbers R.2 Fraction Notation R.3 Decimal Notation Unit R Post-test Unit R Exam (no calculator) Unit 1 - Percent Notation Unit 1 Pre-test 4.1 Ratio and proportion 4.2 Percent notation 4.3 Percent and fraction notation 4.4 Solving percent problems using percent equations 4.5 Solving percent problems using proportions 4.6 Applications of percent 4.7 Sales tax, commission, discount, and interest Interest rates on credit cards and loans Summary and review Chapter test Unit 1 Post-test Unit 1 Post-test Unit 2 - Data, Graphs, and Statistics Unit 2 Pre-test 5.1 Averages, medians, and modes 5.2 Tables and pictographs 5.3 Bar graphs and line graphs Summary and review Chapter test Unit 2 Post-test Unit 2 Post-test Unit 2 Post-test Summary and review Chapter test Unit 2 Post-test Unit 2 Post-test Unit 2 Post-test	Chantor	MATH 052 course content					
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Unit 3 – Measurement		Unit 3 - Measurement					
Appendix Unit 3 Pre-test	Appendix						
A Linear measures: American and metric units (*Appendixes)							
B Weight and mass; medical applications							
C Capacity; medical applications		•					
D Time and temperature							
Summary and review							
Unit 3 Post-test							
Unit 3 Exam		Unit 3 Exam					

MATH 052 course content
Unit 4 - Geometry
Unit 4 Pre-test
Perimeter
Area
Circles
Volume and surface area
Similar triangles
Summary and review
Chapter test
Unit 4 Post-test
Unit 4 Exam
*Unit 5 - Trigonometry (not available in the online classroom at this time)
Unit 5 Pre-test
The right triangle
Angles and sides
The Pythagorean theorem (more in 6e text p 1087, 7e text p 1059)
The tangent ratio
<u>Using the tangent ratio</u>
The sine and cosine ratios
Solving triangles
Practice test
Unit 5 Post-test
Unit 5 Exam
Final Pre-test
Final Post-test
Final Exam instructor for information on how to access the trigonometry module

^{*}Contact your instructor for information on how to access the trigonometry module.

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, Student Services or the College web site at http://www.camosun.bc.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.

 $\frac{http://camosun.ca/about/policies/education-academic/e-2-student-services-\&-support/e-2.5.pdf$

ACADEMIC PROGRESS POLICY

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should 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-1-programming-&-instruction/e-1.1.pdf