



COURSE OUTLINE

TERM: Fall, 2014	COURSE NO: CDMA 005
INSTRUCTOR(S):	COURSE NAME: CDO Math Fundamental 5
OFFICE:	SECTION NO: COURSE CREDITS: 1.0

COURSE FORMAT

This course is offered in blocks of 2 hours per week. This course can be offered in a paced or self-paced format.

PREREQUISITE:

CDO math assessment.

RECOMMENDED FOLLOW-UP COURSES:

CDMF 006

LEARNING OUTCOMES:

Students will demonstrate the ability to:

- Use critical thinking skills.
- Independently set goals.
- Independently track progress.
- Apply logical thinking to fractional operations.
- Build math confidence.
- Move onto other tasks while waiting for help.
- Write tests in a variety of formats.
- Locate and correct errors.
- Manage frustrations of learning.
- Explain or use examples of keywords: fraction, numerator, denominator, of (multiplication), proper fraction, improper fraction, mixed number, equivalent fractions, LCD, LCM, reciprocal, prime, composite, GCF, simplify.
- Identify common fraction as part of a whole.
- Relate common fractions to decimals.
- Use a graphic to show a proper fraction (eg: a drawing).

- Use a graphic to show a mixed number.
- Reduce proper fractions.
- Convert improper fractions to mixed numbers.
- Convert mixed numbers to improper fractions.
- Write equivalent fractions.
- Write mixed numbers as improper fractions.
- Multiply proper fractions.
- Multiply improper fractions.
- Multiply mixed numbers.
- Divide proper fractions.
- Divide improper fractions.
- Divide mixed numbers.
- Solve multiplication word problems using fractions.
- Solve division word problems using fractions.
- Find lowest common multiple.
- Find greatest common factors.
- Express a number as a product of prime factors.
- Add proper fractions with like denominators.
- Add proper fractions with different denominators.
- Add mixed numbers with like denominators.
- Add mixed numbers with different denominators.
- Subtract proper fractions with like denominators
- Subtract proper fractions with different denominators.
- Subtract mixed numbers with like denominators.
- Subtract mixed numbers with different denominators.
- Subtract fractions with borrowing.
- Solve addition word problems using fractions.
- Solve subtraction word problems using fractions.
- Convert fraction to decimals.
- Convert decimals to fractions.
- Compare fractions to decimals (<, >, =, ≠).
- Compare decimals to fractions (<, >, =, ≠).
- Compare fractions (<, >, =, ≠).
- Compare fractions and mixed numbers (<, >, =, ≠).
- Divide a whole into parts (pizza, cake).
- Apply operations with fractions to recipes (double, half).
- Determine whether it is more appropriate to express a number as a decimal or common fraction in a given situation (ex: \$2.50 rather than 2 1/2 dollars).
- Calculate perimeter of squares with correct formula.
- Calculate perimeter of rectangles with correct formula.
- Calculate area of squares with correct formula.
- Calculate area of rectangles with correct formula,

REQUIRED TEXT:

Girard, Liz and Wendy Tagami. *Adult Literacy Fundamental Mathematics Book 4*. Victoria BC: British Columbia Ministry of Advanced Education and Labour Market Development, Queen's Printer, 2010. Print.

COURSE CONTENT:

Unit	Topic
1.	• Common Fractions
2.	• Equivalent Fractions
3.	• Multiplying and Dividing Fractions
4.	• Adding and Subtracting Common Fractions
5.	• Common Fractions and Decimals

COURSE NOTES:

CDO Math Fundamental 5 is equivalent to Capilano's ABE Fundamental Mathematics 5 (BMAF 005)

EVALUATION PROFILE:

Credit will be determined by evaluation as follows:

Unit 1	16%	Common Fractions
Unit 2	16%	Equivalent Fractions
Unit 3	16%	Multiplying and Dividing Fractions
Unit 4	16%	Adding and Subtracting Common Fractions
Unit 5	16%	Common Fractions and Decimals
Final Exam	<u>20%</u>	
Total	100%	

GRADING PROFILE:

Credit/No Credit

CR (Credit) 80-100%

NC (No Credit) 0-79%

OPERATIONAL DETAILS:

University Policies:

Capilano University has policies on Academic Appeals (including appeal of final grades), Student Conduct, Cheating and Plagiarism, Academic Probation and other educational issues. These and other policies are available on the University website.

Attendance:

Students who will be absent for any reason should leave a voice or email message for their instructor **prior** to the start of class.

Cheating/Plagiarism

All forms of cheating including plagiarism are serious offences. The instructor has the right to assign a "0" on the assignment or a grade of "NC" on the course. A second offence in any course may result in expulsion from the program.

Computer use policies:

The misuse of a computer system (such as unauthorized access to other computer accounts or unauthorized use of system software) is not only unfair to other students but can result, at the instructor's discretion, in suspension of the offender's computer access in a course, which may result in an "NC" grade. Repeated offences may result in a permanent revoking of all computer privileges.

Emergency Procedures:

Please read the emergency procedures posted on the wall of the classroom.