



COURSE OUTLINE

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| TERM: Fall 2014 | COURSE NO: CDMA 002 |
| INSTRUCTOR(S): | COURSE NAME: CDO Math Fundamental 2 |
| 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 003

LEARNING OUTCOMES: Students will demonstrate the ability to:

- Apply logical thinking to math operations.
- Work independently.
- Ask for help.
- Receive and respond to feedback.
- Manage time to complete work.
- Identify short-term personal numeracy goals.
- Identify personal learning strengths and styles.
- Use a multiplication table grid.
- Use Answer Key to mark and self-assess.
- Locate information in a text book.
- Check that the question was accurately transferred.
- Organize computation effectively.
- Use critical thinking skills.
- Manage frustrations of learning.
- Explain or use examples of keywords: multiplier, multiplicand, multiple, multiplication, multiply, product, double, triple, twice, carrying, borrowing, of (ex: 2 groups of 3), times, by.
- Place value to 1,000,000.
- Show the relationship between multiplication and repeated addition.
- Read and write whole numbers to 1,000,000 in digits and words.
- Compare and order whole numbers to 1,000,000 (use <; >; =; ≠).
- Round whole numbers up to and including 1,000,000.
- Add whole numbers without carrying.
- Subtract whole numbers without borrowing.
- Add whole numbers with carrying.

- Subtract whole numbers with borrowing.
- Estimate a sum using whole numbers.
- Estimate a difference using whole numbers.
- Multiply two whole numbers that are less than or equal to 10.
- Memorize 10 X 10 multiplication chart.
- Explain or use examples of keywords: o expanded notation.
- Show the relationship between multiplication and repeated addition.
- Write numbers in expanded notation to 10,000.
- Write numbers as repeated additions or multiplication (ex: $12=6+6$ or $12=2 \times 6$).
- Multiply one digit numbers by 10; 100; 1000.
- Apply addition to solve multi-step word problems reflecting real life situations.
- Apply subtraction to solve multi-step word problems reflecting real life situations.
- Apply multiplication to one-step word problems reflecting real life situations.
- Make change up to \$1.00.
- Use manipulatives to explain multiplication.
- Recognize time using an analog clock.
- Recognize 24 hour system International clock notation.
- Convert units of time.
- Convert to and from 12 hour notation to 24 hour notation Add time units.
- Subtract time units.
- Explain or use examples of keyword.

REQUIRED TEXT:

Girard, Liz and Wendy Tagami. *Adult Literacy Fundamental Mathematics Book 2*. Victoria BC: British Columbia Ministry of Advanced Education and Labour Market Development, Queen’s Printer, 2010. Print.

COURSE CONTENT:

| Unit | Topic |
|------|-------------------------------------|
| 1. | • Number sense |
| 2. | • Addition |
| 3. | • Subtraction |
| 4. | • Multiplication |
| 5. | • Making Change, Time and Perimeter |

COURSE NOTES:

CDO Math Fundamental 2 is equivalent to Capilano’s ABE Fundamental Mathematics 2 (BMAF 002)

EVALUATION PROFILE:

Credit will be determined by evaluation as follows:

| | | |
|------------|------------|-----------------------------------|
| Unit 1 | 16% | Number sense |
| Unit 2 | 16% | Addition |
| Unit 3 | 16% | Subtraction |
| Unit 4 | 16% | Multiplication |
| Unit 5 | 16% | Making Change, Time and Perimeter |
| 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.

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.

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.

Emergency Procedures:

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