

EFFECTIVE: SEPTEMBER 2002



CURRICULUM GUIDELINES

A. Division: Educational Services Date: May 13, 2002.
B. Department / Student Development New Course Revision
 Program Area Developmental Studies
 If Revision, Section(s)
 Revised F, P, H
 Date Last Revised:
 October .21, 1993
C: DVST 110 **D:** Mathematics-Literacy Level **E:** 3

Subject & Course No.	Descriptive Title	Semester Credits												
F: Calendar Description: This course is designed to help students learn basic computations using whole numbers, fractions and decimals.. Skills addressed will include the algorithms for addition, subtraction, multiplication and division; counting, naming and writing numbers; estimating, comparing and measuring; solving word problems; making change.														
G: Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings: Instructor directed Number of Contact Hours: (per week / semester for each descriptor) 4 Number of Weeks per Semester: 13.5	H: Course Prerequisites: DVST assessment	I: Course Corequisites: none												
	J: Course for which this Course is a Prerequisite DVST 210													
	K: Maximum Class Size: 12													
	L: PLEASE INDICATE: <table border="0" style="width: 100%;"> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;"> </td> <td style="padding-left: 10px;">Non-Credit</td> <td colspan="2"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;">x</td> <td style="padding-left: 10px;">College Credit Non-Transfer</td> <td colspan="2"></td> </tr> <tr> <td style="border: 1px solid black; text-align: center;"> </td> <td style="padding-left: 10px;">College Credit Transfer:</td> <td style="padding-left: 100px;">Requested <input type="checkbox"/></td> <td style="padding-left: 50px;">Granted <input type="checkbox"/></td> </tr> </table> <p style="text-align: center;">SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)</p>				Non-Credit			x	College Credit Non-Transfer				College Credit Transfer:	Requested <input type="checkbox"/>
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x	College Credit Non-Transfer													
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M: Course Objectives / Learning Outcomes

The aims of this course are for students:

1. to gain initial experience with whole numbers, fractions, decimals and percents;
2. to memorize the single-digit number facts of addition and multiplication, or develop an effective alternate strategy;
3. to use the standard algorithms to add, subtract, multiply and divide whole numbers, fractions and decimals;
4. to be able to measure and record time, length, capacity and mass ("weight") using everyday metric units;
5. to be able to use a calculator for addition, subtraction, multiplication and division.

N: Course Content:

1. Whole Numbers

Individual programs will be designed for each student; these programs will be based on weaknesses and strengths diagnosed by the instructor. The course consists of the following topics:

- a) Naming and transcribing
 - b) Number sense (place value, rounding, estimating, etc.)
 - c) Adding/subtracting - Number facts to $9 + 9$ and operations (includes borrowing/carrying)
 - d) Multiplying/dividing - times tables to 9×9 and operations (includes carrying, remainders)
 - e) Factoring
 - f) Word problems
2. Common Fractions
 - a) Concept and vocabulary
 - b) Changing terms and comparing
 - c) Operations of adding, subtracting, multiplying and dividing
 - d) Applications/Word problems
 3. Decimals
 - a) Reading/Writing, place value
 - b) Rounding and comparing
 - c) Converting to and from common fractions
 - d) Operations of $+$, $-$, \times , \div
 - e) Operations with money
 - f) Measurement
 - g) Other applications/word problems

O: Methods of Instruction

A variety of teaching methods will be used including small group instruction, individual assistance and student directed learning where appropriate and when possible.

The student will be expected to attend regularly, to progress and to undertake independent learning as directed.

P: Textbooks and Materials to be Purchased by Students

All other materials and textbooks will be available on loan from the instructor when needed.

Q: Means of Assessment

A mastery model of on-going evaluation will be used. A student will have completed the course when s/he has satisfactorily completed appropriate exercises and assignments.

Where formal tests of specific skills are used, mastery will be defined as a score of 80 percent or more.

Progress will be monitored on a regular basis by the instructor in consultation with each student.

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No

Course Designer(s)

Education Council / Curriculum Committee Representative

Dean / Director

Registrar

APPENDIX I

Threshold Requirements

During the initial entry interview and assessment, the student must demonstrate an ability to:

1. understand and use spoken English;
2. follow oral instructions;
3. verbally express goals and expectations regarding the course;
4. converse, responding appropriately to questions and generating coherent questions on the topic under discussion.

Program Requirements

The student must demonstrate the ability to:

1. work independently, using his/her own initiative to resolve difficulties when the instructor is not available;
2. articulate difficulties and ask for help when required;
3. participate in designing flexible daily schedules for use of class time;
4. construct realistic long and short term goals;
5. make progress at a reasonable rate towards his/her goals by following an individualized programme and adhering to appropriate schedules;
6. deal with his/her emotions in a manner which will not disrupt the studies of other students.