

DLC 090 - Computational Skills

(3 credits)

****Note** - there will not be class on June 2**

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COURSE LENGTH: This course meets twice a week for approximately two and a half hours, for 16 sessions.

COURSE DESCRIPTION: An accelerated algebra program designed to bring students who need to learn/review the mathematical skills necessary to allow for success in college level mathematics courses.

Purpose: This course is designed to prepare students to take the math competency test required at Doane - Lincoln. The final exam for this course will be the math competency test. In order to take a 100 level or above math course, the student must satisfactorily complete the math competency test.

PREREQUISITES: None.

Who should take this course? Anyone who may have difficulty completing the Doane-Lincoln math competency requirement, or anyone who wants a better foundation before taking the required math course(s) for their particular degree program.

TEXT:

Required Text: Introductory Algebra, An Applied Approach, 9th Edition

Author: Aufmann and Lockwood

Publisher: Brooks/Cole

ISBN#: 1133365434

E-Book available on the Brooks/Cole website

Optional Text: Student Solutions Manual

Publisher: Brooks/Cole

Note that the Student Solutions Manual is **optional**. The answers to the odd numbered problems are in the back of the student textbook. The Student Solutions Manual provides worked out solutions to every other odd exercise, for those who want to see how selected problems should be worked.

COURSE OBJECTIVES:

1. To prepare students for completing the mathematics competency requirement for Doane-Lincoln.
2. To review and master math skills involving operations with decimals, operations with fractions, exponents, order of operations, and variables.
3. To develop or introduce students to operations with real numbers, simplifying algebraic expressions, solving equations, ratio & proportion, operations on polynomials, factoring polynomials, solving quadratic equations, graphing linear and quadratic equations, and deriving linear equations.

COURSE SCHEDULE: This class will meet twice a week until we complete 16 classes. Class sessions will be approximately two and one-half hours long. During the 8th week, students may take the competency test on either of the last two sessions.

Session #1 - Class Expectations - Introductions - Section 1.1

Session #2 - Quiz #1 - Section 1.2

Session #3 - Sections 1.3 and 1.4

Session #4 - Quiz #2 - Sections 1.6 and 1.7

Session #5 - Sections 2.1 and 2.2

Session #6 - Quiz #3 - Section 3.1

Session #7 - Sections 3.3 and 3.4

Session #8 - Quiz #4 - Sections 4.1 and 4.2

Session #9 - Sections 4.3 and 4.4

Session #10 - Quiz #5 - Sections 5.1 and 5.2

Session #11 - Sections 5.3, 5.4, and 5.5

Session #12 - Quiz #6 - Sections 6.6 and 6.7

Session #13 - Sections 7.1, 7.2, and 11.4

Session #14 - Quiz #7 - Practice Competency Test

Session #15 - Competency Test

Session #16 - Competency Test

Method of Evaluation

Grading Scale:

95-100	A+
90-94	A
85-89	B+
80-84	B
75-79	C+
70-74	C
65-69	D+
60-64	D
Below 60	F

Your grade will be determined as follows:

70% will be determined from 7 quizzes consisting of 10 questions each
30% will be determined by the final exam consisting of the Doane Math Competency Test. If the final exam grade is less than 70%, a grade of 0 will be recorded for this portion of the grade.

This grading pattern has been designed to comply with the college directive, that if at the end of this course you cannot earn a passing grade on the competency test, then you cannot earn a passing grade of C- or better.

COURSE POLICIES

It is very important that you attend all classes. In the event that you should have to miss a session, you will be responsible for getting the notes from another person in the class and to be ready to take the quiz, if one is scheduled.

More than three absences from class will result in a failing grade for this class.

If an emergency should arise and you need to miss class, please phone my work number, home number, or Doane College and leave a message, then the next day call me at home to make arrangements for making up any missed work.

The Doane College Academic Policy will be adhered to in this class. All quizzes and the competency test should be done without assistance from outside sources. Any violation of these policies can result in a loss of credit for that particular test or quiz.