

DLC 090 - Computational Skills (3 credits)

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COURSE LENGTH: This course meets twice a week for approximately two 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, each student must satisfactorily complete the math competency test and receive a C- or better.

PREREQUISITES: None

Required Text: Introductory Algebra, An Applied Approach, 7th Edition
Author: Aufmann, Barer, and Lockwood
Publisher: Houghton Mifflin
ISBN: 0-618-50307-2 (paperback)
0-618-74651-X (e-book)

Optional Text: Student Solutions Manual
Publisher: Houghton Mifflin
ISBN: 0-618-52028-7

Please note that the Student Solutions Manual is **optional**, and the bookstore may not stock this book. The regular student text has answers to the odd numbered problems in it. The student solutions manual provides worked out solutions to every other odd exercise. It is for those students who want to see how selected problems can be worked out.

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, fractions, exponents, order of operations, and variables.
3. To develop or introduce students to simplifying algebraic expressions, solving equations, ratio & proportion, operations on polynomials, factoring polynomials, solving quadratic equations, and graphing.

COURSE SCHEDULE: This class will meet twice a week until we complete 16 classes. Class sessions will be approximately 2 hours long, but slightly longer on some days. Students may take the competency test on either the 15th or 16 session.

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 3.2 and 3.3

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 and 5.4 and 5.5

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

Session #13 - Sections 7.1 and 7.2 and 11.4

Session #14 - Quiz #7 - Go over 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 by the 7 quizzes consisting of 10 questions each.
30% will be determined by the final exam (Doane Competency Exam)
If the final exam grade is less than 70%, a grade of 0% will be recorded
for that portion of the grade.

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 at the next class, if one is scheduled.

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

If an emergency should arise, and you need to miss class, please phone my work number, home number, cell phone, or Doane College and leave me a message.

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