

COURSE SYLLABUS

COURSE: DMA 010 OPERATIONS WITH INTEGERS

HOURS: Lecture: .75 Lab: .50 Shop/Clinical: 0 Work: 0 Credits: 1

COURSE DESCRIPTION:

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.

PREREQUISITE(S): None

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

REQUIRED SOFTWARE (eBook included):

Bittinger, MyMathLab Standalone Access Package Brunswick Community College. Boston: Pearson, 2012. ISBN 13:9781256716037

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Demonstrate an understanding of the concept of integers within contextual application problems
2. Correctly represent integers on a number line
3. Demonstrate the correct use of additive inverses
4. Evaluate the absolute value of a number
5. Apply integer operations in solving contextual application problems
6. Correctly apply the associative and commutative properties
7. Demonstrate understanding of exponents by converting between exponential and expanded form
8. Evaluate exponents
9. Calculate the square root of numbers containing perfect squares
10. Evaluate integer expressions by using the correct order of operations
11. Distinguish between appropriate use of area and perimeter formulas to solve geometric application problems
12. Use the Pythagorean Theorem to solve geometric problems
13. Represent the events of a geometric application problem included in this module pictorially and evaluate the correct solution using the appropriate formula

14. Demonstrate an understanding of what a variable represents
15. Evaluate variable expressions and formulas

SYLLABUS INFORMATION:

The Student Learning Outcomes listed in this syllabus are those required actions that a student who successfully completes the course must be able to perform. The educational experience, however, is a two-way, interactive process involving both the student and the instructor. The student must play an active role in the learning process in order to be successful. Instructors will provide an Instructor's Syllabus at the first class meeting explaining how they measure each of the Student Learning Outcomes. A student who is unable to accomplish the outcomes will not receive a passing grade in the course.

The information in this BCC Syllabus may not be accurate beyond the current semester. Textbooks and other course materials are subject to change. Students should verify the textbooks at the first class meeting with their instructor prior to purchasing.

GRADING SYSTEM:

Brunswick Community College employs a system of letter grades and corresponding quality points per grade to evaluate a student's performance in meeting the stated goals and objectives for each course. The grading system is published in the [BCC Catalog and BCC Student Handbook](#).

ATTENDANCE POLICY:

Each student has individual responsibility for attending class regularly and for meeting course objectives. A student is expected to attend all class meetings in a course. Rules on tardiness and leaving class early are addressed in each instructor's syllabus. Instructors are required to record absences and report excessive absenteeism to the Registrar.

If a student is absent for any reason in excess of 20 percent of the class hours, he or she is in violation of the Brunswick Community College attendance policy. Unless the student officially withdraws from the course prior to the 65 percent point of the 16 week semester (or equivalent days for courses of other duration), he or she may receive a grade "R".

Students who receive an "EXCESSIVE ABSENTEEISM NOTICE" are advised to contact their instructors immediately to review the conditions for withdrawing from the course or for continuing the course.

STUDENTS WITH DISABILITIES:

Brunswick Community College complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, which require that no qualified student with a disability be excluded from participation in or be denied the benefits of any services, programs or activities on the basis of his or her disability. If a student has a disability that is covered by the Americans with

Disabilities Act and requires accommodations in the classroom and/or in extracurricular activities, the student must request the accommodations in writing and submit the request to the Disability Services Coordinator. Instructors will not provide accommodations without notification from the Disability Services Coordinator. Brunswick Community College will make every effort to provide reasonable accommodations.