

COURSE SYLLABUS

COURSE: **MAT 110** **Mathematical Measurement and Literacy**

HOURS: Lecture: 2 Lab: 2 Shop/Clinical: 0 Credits: 3

COURSE DESCRIPTION:

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

PREREQUISITE(S):

Take all: DMA-010, DMA-020, and DMA-030

COREQUISITE(S): none

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Please see instructor before purchasing text.

Carman, Robert A., Hal M. Saunders. *Mathematics for the Trades: A Guided Approach, 9th Edition*. Boston, MA: Pearson/Prentice Hall, 2011. Print.
ISBN 9780132540926
Readability Level: 10

Or

Carman, Robert A., Hal M. Saunders. ***NEW MyMathLab with Pearson eText-
- Instant Access -- for Mathematics for the Trades: A Guided Approach,
9/E***
Boston, MA: Pearson/Prentice Hall.
ISBN-13: 9780135065488

STUDENT LEARNING OUTCOMES:

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

1. Demonstrate estimation skills and justify results.
2. Use dimensional analysis to convert units of measurement.
3. Employ fractions, percentages and proportions to solve contextual problems.
4. Compute geometric measurements of perimeter, area, volume and angles.
5. Use technology to analyze and interpret elements of personal finance.
6. Compare and contrast measures of center and measures of dispersion.
7. Interpret tables, charts, and graphs and communicate results.

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. This syllabus contains the Learning Outcomes for the course. 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 with their instructor at the first class meeting prior to opening and using the textbook and/or material.

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 course documents. 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 of "F." Students who receive an "Excessive Absenteeism Notice" are advised to contact their instructors immediately to review the conditions for continuing or withdrawing from 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 Disability Services Coordinator. Brunswick Community College will make every effort to provide reasonable accommodations.