Department of Mathematics

Jackson State Community College

Last Day to Drop or Withdraw from Classes: (Verify Date on calendar and with Records Office)

MATH 1010 Math for Liberal Arts

Credit Hours

3 credit hours

Course Description

This course is designed for students who are seeking an A.S. or A. A. University Parallel degree in a major that does not include programs of science, mathematics, engineering, or computer science. It will satisfy the mathematics requirement for other A.S. and A.A. University Parallel majors. Topics include sets, logic, geometry, finance, probability, statistics, and applications.

Prerequisite Course(s)

Prerequisite(s): Learning Support Modules 1 - 7 or equivalent

Text

Survey of Mathematics with Applications, Angel, 9e
ISBN: 0321828046 Package w/ MyMathLab

Other text or materials required

A calculator with exponential and logarithmic capabilities.

Academic Honesty

Acts of academic dishonesty are serious offences at JSCC. Suspension from the college could be the consequence for any act of dishonesty. No form of cheating will be tolerated. See the JSCC catalog for additional information.

Prerequisite Competencies

It is expected that students have mastery of these prerequisite competencies. These topics will not be covered during class time. If assistance is needed regarding these topics, please use the services and materials provided by the Academic Assistance Center and Math Learning Center.

Competencies include but are not limited to:

- The ability to do research on the Internet
- Perform the four basic operations on algebraic expressions and real numbers (addition, subtraction, multiplication, and division)
- Solve linear equations.
- Understand set operations and set notation.
- Identify the key elements of an application problem, set up an appropriate equation to solve.
- Have a familiarity with our Hindu-Arabic numeration system and its four basic operations.
- Have previous experience with the Roman numeration system.
- Be able to determine the relative order of selected numbers.

Exit Competencies:

Upon successful completion of this course, a student will demonstrate comprehension and application of the following competencies.

- Understand the concepts of sets, subsets and set operations
- Understand the concept of infinite and finite sets
- Understand the concept of logic statements and connectives
- Understand truth tables and equivalent statements
- Work with number theory and the different numbers sets
- Work with the real numbers and their properties
- Understand exponents, scientific notation
- Calculate expressions using the order of operations
- Understand linear equations in one variable including formulas and applications
- Graph linear equations
- Calculate conversions within the metric system for length, area, volume, mass, temperature
- Calculate dimensional analysis
- Understand geometric concepts including points, lines, planes, angles, polygons, perimeter, area, volume
- Calculate personal loans and simple interest
- Calculate compound interest
- Calculate installment buying and mortgages
- Calculate probability, tree diagrams, expected value
- Understand conditional probability, sampling techniques
- Calculate measures of central tendency

Writing Competency

None

Support Facilities

Most JSCC math courses are supported with tutoring during the Fall and Spring semesters. See your instructor for specific tutoring opportunities available at JSCC. These facilities are not a substitute for attending class. Math tutors are not allowed to introduce new material to a student. If a class must be missed, the student must obtain class notes from a classmate and then meet with the instructor BEFORE seeking tutoring on the missed material.

ADA

Jackson State will make reasonable accommodations for students with documented disabilities. Students should notify their instructor and Linda Nickell, Dean of Students, in the Counseling Office, Room 139 of the Student Union Building. The contact number is 425-2616 and the email is lnickell@jscc.edu. Instructors should be notified the first week of class. All discussions remain confidential.