

COLLEGEWIDE COURSE OUTLINE OF RECORD

MATH 118, CONCEPTS IN MATHEMATICS

COURSE TITLE: Concepts in Mathematics

COURSE NUMBER: MATH 118

PREREQUISITES: Demonstrated competency through appropriate assessment or a grade of “C” or better in MATH 050 Basic Algebra or MATH 080 Mathematics Principles with Algebra.

SCHOOL: Liberal Arts and Sciences

PROGRAM: Liberal Arts

CREDIT HOURS: 3

CONTACT HOURS: Lecture: 3

DATE OF LAST REVISION: Spring, 2007

EFFECTIVE DATE OF THIS REVISION: Fall, 2008

CATALOG DESCRIPTION: Through real-world approaches, presents mathematical concepts of measurement, proportion, interest, equations and inequalities, probability and statistics. Brief survey of college mathematics.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Recognize and solve percentage and proportion problems.
2. Translate realistic problems into mathematical statements using formulas as appropriate.
3. Solve equations and inequalities by appropriate graphical, numerical, verbal, and algebraic methods.
4. Recognize and operate within and between different measurement systems.
5. Solve financial applications with simple and compound interest.
6. Collect and analyze data using statistical methods of central tendency and dispersion and draw conclusions.
7. Solve counting and probability problems using sets, diagrams and formulas.
8. Use probability, graphing and statistical models to make inferences about real-world situations.
9. Solve a variety of application problems in the above areas.
10. Use a scientific and/or graphing calculator proficiently as related to coursework.
11. Use computer technology, which may include the Internet, the Web, email, or computer tutorials to enhance the course objectives.

COURSE CONTENT: Topical areas of study include –

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| Measurement systems | Real life applications and problem solving |
| Percent and proportion | Simple, compound and mortgage interest |
| Probability and statistics | Equations and inequalities |

ACADEMIC HONESTY STATEMENT:

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement.

Cheating on papers, tests or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

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