



NEW STUDENT PROGRAMS

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**ORIENTATION 2011
MATH PLACEMENT GUIDE**

ALL MAJORS

Score of 0-34

All students with an ALEKS score of 34 or less should take this course.

MTH 099 BASIC ALGEBRA AND TRIGONOMETRY

Students do not get college credit for this course, but it does count toward the number of credits taken.

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) MAJORS

Score of 35-49

MTH 108 (section 4 only) MATHEMATICS STRATEGIES AND SKILLS FOR STEM MAJORS

Score of 50-69

MTH 111 PRECALCULUS

Score of 60+

MTH 131 APPLIED CALCULUS I

Score of 70+

MTH 141 INTRODUCTORY CALCULUS WITH ANALYTIC GEOMETRY I

BUSINESS MAJORS

Score of 35-39

MTH 108 (section 4 only) MATHEMATICS STRATEGIES AND SKILLS FOR STEM (or BUSINESS) MAJORS

Score of 40-59

MTH 110 MATHEMATICAL FOUNDATIONS FOR BUSINESS ANALYSIS

Score of 60+

BUS 111 INTRODUCTION TO BUSINESS ANALYSIS AND APPLICATIONS

NON-STEM AND NON-BUSINESS MAJORS

Student in non-STEM and non-business majors who want a course that satisfies the General Education requirement for Mathematics and Quantitative Reasoning (MQ) should take one of the following courses:

Score of 35+

MTH 105 ELEMENTARY MATHEMATICAL CODEBREAKING

Use of technology to break codes, including those enciphered by substitution, polyalphabetic, polygraphic, and transposition ciphers. Mathematical topics include modular arithmetic, linear systems, probability. (MQ)

MTH 106 MATHEMATICS OF SOCIAL CHOICE AND FINANCE

Voting methods, apportionment problems, and mathematics and of everyday finance. Emphasis on development of reasoning ability as well as manipulative techniques. (MQ)

MTH 107 INTRODUCTION TO FINITE MATHEMATICS

Concepts and processes of modern mathematics concerned with sets, the theory of probability, and statistics. Role of these concepts in today's social and physical sciences. (MQ)

MTH 108 TOPICS IN MATHEMATICS

(all but section 4) Introduces the non-mathematics student to the spirit of mathematics and its applications. Emphasis is on the development of reasoning ability as well as manipulative techniques. (MQ)

MTH 109 POLITICS AND MATHEMATICS

Elementary Mathematical treatments of voting systems and voting paradoxes; models of escalation, conflict, and deterrence, measures of political power. (MQ)

MTH 208 NUMERACY FOR TEACHERS

Conceptual understanding supporting mathematical ideas presented in current, standards-based elementary mathematics education. An in-depth look at problem solving, number systems, functions, relations, and geometry. (MQ)

This course is appropriate for elementary teachers and teachers in non-STEM fields.

STA 220 STATISTICS IN MODERN SOCIETY

Elementary concepts in sampling, polls, surveys, random samples. Foundations of statistical inference; estimation, comparison prediction. Statistics for the consumer, quality of data, credibility of statistical evidence. Environmental measurements and experiments. (MQ)

CSC 101 COMPUTING CONCEPTS

Capabilities and limitations of computers. Applications of computers in today's society. Overview of computing systems and programs. Students will complete several projects using a computer. (MQ)