MATHEMATICS FOR TRANSFER

Associate in Science in Mathematics for Transfer (ADT)

The Student Transfer Achievement Reform Act (Senate Bill 1440, codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Science in Mathematics for Transfer is intended for students who plan to complete a bachelor's degree as a math major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students will learn the basic mathematical theory which is needed to study advanced math topics at a baccalaureate university.

Mathematics is a traditional program of university study, with a heritage dating back centuries. In addition to being an academic program worthy of study for its own merits, a degree in mathematics allows a student to enter the workforce in a broad range of areas, including finance, data analysis, and teaching. A degree in mathematics also provides the background for students to pursue graduate programs in many areas such as engineering, law, medicine, and business. A degree in mathematics is often considered as a strong indication that a student possesses good critical thinking skills, the ability to process complicated ideas, and the ability to both follow and create logical processes.

In order to earn the Associate in Science in Mathematics for Transfer, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Requirements for Associate in Science for Transfer Degree:

a) Complete Major Field and Supporting Courses with a grade of C or better.

b) Complete CSU GE (Plan B) or IGETC for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.

c) Complete 60 CSU-transferable semester units.

d) Obtain a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

e) Complete a minimum of 21 semester units in the Mathematics major.

f) Complete at least 12 units at Ohlone College.
Student Learning Outcomes
1. Learn the foundation mathematics necessary for further studies in engineering, mathematics, and science.
2. Demonstrate proficiency at problem solving techniques.
3. Demonstrate a rudimentary level of knowledge for the construction of formal proofs.
4. Apply their knowledge of problem solving techniques towards the solution of problems in engineering and science.

MAJOR FIELD
MATH-101A Calculus with Analytic Geometry 5
MATH-101B Calculus with Analytic Geometry 5
MATH-101C Calculus with Analytic Geometry 5
15

SUPPORTING COURSES
MATH-103 Introduction to Linear Algebra OR 3
MATH-104 Differential Equations (5) 3-5

Complete one course from the following courses. Courses cannot be double-counted to apply towards more than one requirement.
CS-102 Introduction to Computer Programming Using C++ 3
MATH-103 Introduction to Linear Algebra 3
MATH-104 Differential Equations 5
MATH-111 Introduction to Matlab for Engineers 3
MATH-163 Discrete Mathematics for Computers 3
PHYS-140 Mechanics 4
3-5

Total Required Units: 21-25