

Mathematics

San Jacinto Campus

(951) 487-MSJC (6752)

1-800-624-5561

Keith Johnson (951) 487-3752

kjohnson@msjc.edu

Jorge Valdez-Alvarez (951) 487-3758

jvaldezalvarez@msjc.edu

Menifee Valley Campus

(951) 672-MSJC (6752)

1-800-452-3335

Michael Beckham (951) 639-5755

mbeckman@msjc.edu

Degree(s)

Transfer:

A.S. in Mathematics for Transfer ^{30449 AS.MATH.OPTBAST and 30449 AS.MATH.OPTCAST}
(using General Education Requirements Option B or C)

See Also:

A.A. in Liberal Arts - Mathematics & Science Emphasis

Non-Transfer:

None

Certificate(s)

None

Employment Concentration Certificate(s)

None

PROGRAM DESCRIPTION

The Mathematics for Transfer degree consists of a clear sequence of courses which prepares students for transfer into the major. The study of mathematics concerns the nature and manipulation of known and unknown quantities. The MSJC mathematics transfer degree is designed to provide students with an appreciation of the nature, scope and

power of mathematics, as well as an understanding of how mathematics is applied to business, engineering, science and daily life.

CAREER OPPORTUNITIES

Transfer Degree

For BA/BS careers, please see your transfer institution.

TRANSFER PREPARATION

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www.assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

LEARNING OUTCOMES

- Develop the ability to express ideas and reason logically regarding abstract situations.
- Synthesize ideas and apply mathematical reasoning and logic to the real world.
- Set up and solve problems using arithmetic, algebraic, and geometric models.
- Write mathematical information symbolically, visually, and numerically.
- Develop problem-solving and modeling skills.

DEGREE

An Associate of Science (AS) degree in Mathematics for Transfer prepares students for transfer to four-year colleges offering a Bachelor of Arts (BS) in Mathematics or related fields. The major requirement for an AS in Mathematics may be met by completing the pattern described below plus all MSJC General Education Option B (CSU-GE breadth) and/or Option C (IGETC) requirements.

A.S. in Mathematics for Transfer (18 units)

Required Core Courses/Sequence (12-15 units)

MATH-211	Analytic Geometry and Calculus I	5 units
MATH-212	Analytic Geometry and Calculus II	5 units
or		
MATH-212H	Honors Analytic Geometry and Calculus II	5 units
MATH-213	Analytic Geometry and Calculus III	5 units
or		
MATH-213H	Honors Analytic Geometry and Calculus III	5 units

List A (1 course)

MATH-215	Differential Equations	4 units
MATH-218	Linear Algebra	4 units

List B (1 course)

CSIS-113A	C++ Programming - Level 1	3 units
CSIS-113B	Java Programming - Level 1	3 units
CSIS-123A	C++ Programming - Level 2	3 units
MATH-140	Introduction to Statistics	4 units
or		
MATH-140H	Honors Introduction to Statistics	4 units

PHY-201	Mechanics and Wave Motion	4 units
PHY-202	Electricity and Magnetism	4 units
or		
PHY-202	Honors Electricity and Magnetism	4 units
Required Subtotal		19-23 units
CSU General Education or IGETC Pattern		37-39 units
Possible double counting		9 units
Transferable Electives (as needed to reach 60 CSU transferable units)		
DEGREE TOTAL		60 units

Note: When selecting 4-5 unit courses for the Associate in Science in Mathematics for Transfer, keep in mind that you may not require more than 60 units for the entire degree.

This Associate of Science in Mathematics for Transfer degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A student completing this degree is guaranteed admission to the CSU system, but not a particular campus or major. Students should meet with a counselor to develop an educational plan and receive university admission and transfer requirements.



Math Curriculum Flowchart

