



Santiago Canyon College

What happens here matters.

2018-2019 Academic Year

Associate of Science for Transfer: Mathematics (31040)

The Associate in Science in Mathematics for Transfer degree prepares students to transfer to a four-year institution leading to a baccalaureate degree. Employment opportunities are available as mathematicians in government, health, industry and education. Successful completion of the transfer degree in Mathematics guarantees the student acceptance to the California State University system to pursue a baccalaureate degree in Mathematics or a related field.

Learning Outcome(s)

Upon successful completion of the major requirements for this degree: students will be able to

- Create mathematical models of real world phenomena: apply those models to make predictions about the behavior of the phenomena: apply appropriate problem solving techniques and critically evaluate the veracity of the obtained results.
- Clearly communicate mathematical reasoning and problem solving skills using a variety of formats: diverse technologies: and appropriate mathematical vocabulary and notation.
- Integrate into educational and professional conduct a calm: confident: and ethical approach to mathematical reasoning and problem solving while taking personal responsibility for mathematical success.



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Major Requirements	Units
MATH 180/180H: Single Variable Calculus I	4
MATH 185: Single Variable Calculus II	4
MATH 280: Intermediate Calculus	4
Select one (1) course from the following (List A): 3-5	
MATH 287: Introduction to Linear Algebra and Differential Equations	(5)
MATH 290: Linear Algebra	(3)
MATH 295: Differential Equations	(3)
Select one (1) course from the following (List B): 3-5	
CMPR 112: Java Programming	(3)
CMPR 120: Introduction to Programming	(3)
CMPR 213: C# Programming	(3)
MATH 219/219H: Statistics and Probability	(4)
PHYC 250A: Physics for Scientists and Engineers I	(5)
TOTAL	18-22