

## PROGRAM OF STUDY

### Mathematics Associate in Science for Transfer Degree

The Associate in Science Degree in Mathematics for Transfer prepares students for transfer into four-year mathematics programs. A strong mathematics background allows students to pursue studies in fields such as mathematics education, engineering, information technology, statistical analysis, physical science and advanced mathematics.

Upon completion of the Reedley College Mathematics program, a student will be able to:

- Communicate mathematics with understanding (read, write, listen, speak).
- Use critical thinking and mathematical reasoning to solve a variety of problems.
- Apply mathematical models to real world situations.
- Use technology, when appropriate, to enhance their mathematical understanding, critical thinking, and problem solving skills.
- Demonstrate the ability to use symbolic, graphical, numerical and written representations of mathematical ideas.

The program is suited to the needs of students who will complete their education at Reedley College with an A.S. degree, as well as those students who will complete their Reedley College Associate in Science Degree in Mathematics for Transfer who transfer to a four year institution to complete their bachelor's degree. Successful completion of the Associate in Science Degree in Mathematics for Transfer guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree, in preparation to pursue a career in the field of mathematics, engineering, statistics, actuarial science, business and management, law enforcement, government, and education.

To obtain the Associate in Science Degree in Mathematics for Transfer, students must complete the following:

(1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtainment of a minimum grade point average of 2.0.

<b>Math Core - 19 units</b>		<b>Units</b>
MATH5A	Math Analysis I	5
MATH5B	Math Analysis II	4
MATH6	Math Analysis III	5
MATH17	Differential Equations and Linear Algebra	5
<b>Select one (1) course - 4 units</b>		<b>Units</b>
CSCI26	Discrete Mathematics for Computer Science	4
CSCI40	Programming Concepts and Methodology I	4
ENGR40	Programming for Scientists and Engineers	4
MATH11	Elementary Statistics	4
PHYS4A	Physics for Scientists and Engineers	4
STAT7	Elementary Statistics	4
<b>CSU GE or IGETC - 39-41 units</b>		<b>Units</b>
<b>CSU electives to reach 60 units total</b>		<b>Units</b>
<b>Total Units</b>		<b>Units</b>
<b>Total Units</b>		<b>60</b>

Effective Term: Fall 2015

PID 491