

2017-18

## Associate in Science in Mathematics for Transfer Degree

Complete the following program of study. (Major #C.6200.AS-T). Major requirements (21 units minimum).

The Associate in Science in Mathematics for Transfer Degree 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. The program is suited to needs of students who will complete their education at Clovis Community College with an A.S. degree, as well as those students who will complete their Clovis Community College Associate in Science in Mathematics for Transfer Degree who Transfer to a four-year institution to complete their bachelor's degree. Successful completion of the Associate in Science in Mathematics for Transfer Degree 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.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

#### Required Core:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
<b>MATH 5A</b>	Math Analysis I	5	MATH 210			
<b>MATH 5B</b>	Math Analysis II	4	MATH 220			
<b>MATH 6</b>	Math analysis III	5	MATH 230			
<b>MATH 17</b>	Differential Equations and Linear Algebra	5	MATH 240, 260, or 910s			

#### List A - Select one course:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
<b>CSCI 26</b>	Discrete Mathematics for Computer Science	4	COMP 152			
<b>CSCI 40</b>	Programming Concepts and Methodology I	4	COMP 112 or 122			
<b>ENGR 40</b>	Programming for Scientists and Engineers	4	ENGR 220			
<b>MATH 11 or STATS 7</b>	Elementary Statistics	4	MATH 110			
<b>PHYS 4A</b>	Physics For Scientists and Engineers	4	PHYS 205			

**Total units for major does not include required general education or pre-requisite courses.**

#### Comments:

#### Program Learning Outcomes:

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

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

- A minimum of 60 CSU-transferrable units with a grade point average (GPA) of 2.0 or better must be completed.
- Certification of either the California State University General Education Breadth (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC-CSU version) is required. CSU GE -Breadth and IGETC advising sheets are available in Student Services, AC2 #133 or online at [CCC GE \(CSU/UC\) GE and Major Sheets](#)
- Courses may double count in the major and CSU GE-Breadth or IGETC.

To see what CSU campuses accept this degree go to [www.adegreewithaguarantee.com](http://www.adegreewithaguarantee.com).