Mathematics A.S. Degree

First Year

Semester 1 — 8 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 400 Calculus I	5	through the placement process	2
GE	any Area 3A (Arts) course	3		3A

Semester 2 — 8 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 401 Calculus II	5	MATH 400	
GE	ENGL C1000 Academic Reading and Writing **or**	3		1A
	ENGL C1000H [H] Academic Reading and Writing - Honors	3		

Second Year

Semester 3 — 8 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 402 Calculus III	5	MATH 401	
GE	any Area 1B (Critical Thinking and Composition) course	3		1B

Semester 4 — 7 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 410 Introduction to Linear Algebra	3	MATH 401	
GE	any Area 5A (Physical Sciences) course	3		5A
GE	any Area 5C (Science Lab) course[1]	1		5C

[1] The Area 5C (Science Lab) course must correspond with either the Area 5A (Physical Sciences) or Area 5B (Biological Sciences) course.

Third Year

Semester 5 — 7 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	MATH 420 Differential Equations	4	MATH 401	
GE	any Area 1C (Oral Communication) course	3		1C

Semester 6

6 Units — **9 Units**

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
RE	MATH 320 Symbolic Logic **or** PHIL 324[2] Symbolic Logic	3 3		
GE	any Area 3B (Humanities) course	3		3B
GE	any Area 5B (Biological Sciences) course	3		5B

[2] or STAT C1000/C1000H (formerly known as STAT 300/480)

Fourth Year

Semester 7

6 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area 4 (Social & Behavioral Sciences) course (from 2 academic disciplines)	3		4
GE	any Area 6 (Ethnic Studies) course	3		6

Semester 8

7 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area 4 (Social & Behavioral Sciences) course (from 2 academic disciplines)	3		4
Elec	any transferable elective course	3		
Elec	any transferable elective course	1		

EXPLANATION OF CATEGORIES		
Req	Required Core	A course that is required for this program
GE	General Education	A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement
RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list
Elec	Degree Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree

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Other Notes to Students Preparing to Transfer:

- Physics and computer programming courses are often required for transfer.

- STAT C1000 (formerly know as STAT 300) is required for Math Education concentrations at many four-year universities.

- See ASSIST.ORG for the transfer requirements of the institution to which you plan to transfer.

- The CSU system requires every student receiving a bachelor's degree to be knowledgeable about the Constitution of the United States, American history, and state and local government. This requirement is generally known as the American Institutions requirement. Students can complete this requirement at ARC before transferring. See a counselor for a list of approved courses.

Honors Courses (H):

Students with a cumulative GPA of 3.2 or better who complete 15 or more units of Honors coursework earn an Honors Transfer Certificate and can take advantage of honors-to-honors transfer agreements with highly selective colleges and universities, both public and private.