



# Mathematics A.S. Degree

FULL TIME

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2024-25

GE Pattern: local AA/AS

Total Units: 60

## First Year

### Semester 1

14 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	MATH 400	Calculus I	5	IIb MC
GE	ENGWR 300 / 480 <sup>H</sup>	College Composition	3	IIa WC
GE		any Area I (Humanities) course	3	I
GE		any Area IIIa (Physical Education) course	1	IIIa
GE		any Area IIIb (Life Development Skills) course	2	IIIb

### Semester 2

14 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	MATH 401	Calculus II	5	
GE		any Area IV (Natural Sciences) course	3	IV
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb
Elec		any elective course numbered 300-499	3	

## Second Year

### Semester 3

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	MATH 402	Calculus III	5	
GE		any Area Va (American Institutions) course	3	Va
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI
Elec		any elective course numbered 300-499	3	
Elec		any elective course numbered 300-499	2	

### Semester 4

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	MATH 410	Introduction to Linear Algebra	3	
Req	MATH 420	Differential Equations	4	
RE	MATH 320 / PHIL 324 <sup>1</sup>	Symbolic Logic	3	

## TRANSFER PATH

### Potential Transfer Majors:

- Mathematics B.S.

### Potential Career/Options After Completing a Bachelor's Degree:

- actuary
- analyst
- statistician
- researcher
- educator

### Advising Notes:

- This map starts with MATH 400, which has prerequisites. Please [see a counselor](#) to add in prerequisite courses, if needed.
- Students can substitute ESLW 340 for ENGWR 300/480.

### Scheduling Notes:

- MATH 320/PHIL 324 is offered in the spring.

### Other Notes to Students Preparing to Transfer:

- Physics and computer programming courses are often required for transfer.
- STAT 300 is required for Math Education concentrations at many four-year universities.
- See [ASSIST.ORG](https://assist.org) for the transfer requirements of the institution to which you plan to transfer.

CAT.	COURSE	TITLE	UNIT	GE AREA
Elec		any elective course numbered 300-499	3	
Elec		any elective course numbered 300-499	3	

<sup>1</sup> or STAT 300/480

- The UC system requires proficiency in a language other than English equivalent to two years of high school study. See a counselor about fulfilling this requirement.

Honors Courses (H):

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

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
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
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

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

- MC = Math Competency
- WC = Writing Competency