

## DEGREE MAP

The following sequence is an example of how this program can be completed within the recommended time frame. It presumes that all course and program prerequisites have been met. Completion times may vary depending on individual circumstances. Students should consult an advisor when they plan their individual completion path using MyDegreePlan.

Program Name: Mathematics - Associate of Science Degree

Locations Offered: Sierra Vista Campus

First Semester: Fall

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	CIS 130 Programming Logic	F2F, OL	3
Gen Ed-Add Math/Lab Science	PHY 111 General Physics I**	F2F	3-4
	Or add math/lab sciences	F2F, OL	
Gen Ed-Composition	ENG 101 Composition or ENG 101L Composition with Support Lab	F2F, OL	3
Gen Ed-Mathematics	MAT 220 Calculus I or higher	F2F, OL	3-5
Elective		F2F, OL	0-3

Second Semester: Spring

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	MAT 227 Discrete Mathematics	F2F	3
Core Curriculum	MAT 231 Calculus II	F2F, OL	4
Gen Ed-Composition	ENG 102 English Composition	F2F, OL	3
Gen Ed-Humanities		F2F, OL	3
Gen Ed-Social & Beh Sciences		F2F, OL	3

Third Semester: Fall

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum	CIS 204 C Programming or CIS 208 Java Programming	F2F	4
Core Curriculum	MAT 241 Calculus III	F2F, OL	4
Gen Ed-Add Math/Lab Science	MAT 262 Differential Equations***	F2F	3-4
	Or Lab Science	F2F, OL	
	Or EGR 102 Principles of Engineering	F2F	
Gen Ed-Add Math/Lab Science	PHY 230 Physics with Calculus I	F2F	4

Fourth Semester: Spring

Requirement Category	Course(s)	Delivery*	Credits
Core Curriculum or Elective	MAT 252 Linear Algebra***	F2F	3-4
	Or Lab Science	F2F, OL	
	Or CIS 220C Data Structures-C	F2F	
	Or CIS 220J Data Structures-Java	F2F	
	Or EGR 122 Programming for Engineering and Science	F2F	
Gen Ed-Arts		F2F, OL	3
Gen Ed-Laboratory Sciences	PHY 231 Physics with Calculus II	F2F	4
Gen Ed-Social & Beh Sciences		F2F, OL	3
Elective		F2F, OL	0-3

Total Credits Required: 60-64

\*Key: F2F = Face-to-Face OL = Online

Reviewed: 3/1/2023

Notes: \*\*PHY 111 or one year of high school mathematics is prerequisite for PHY 230.

\*\*\*Need to take one, MAT 252 OR MAT 262, not both – Student should check with their bachelor's degree program on which is more beneficial. MAT 262 is only offered in the fall semester and MAT 252 is only offered in the spring semester, both courses have MAT 231 as a prerequisite.