

## 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 and Douglas Campuses

First Semester: Fall

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

Second Semester: Spring

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

Third Semester: Fall

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

Fourth Semester: Spring

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

Total Credits Required: 60-64

\*Key      CB = Campus-Based (In Person or Hybrid: Requires attendance at a physical location)

            OL = Online (Synchronous, Asynchronous, or Online Combo)

Reviewed: 3/1/2025

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.