

Student ID: _____		Catalog: 2023-2024 Undergraduate Catalog	
Student Name: _____		Program: Mathematics Minor	
Adviser Name: _____		Minimum Credits Required: _____	

Mathematics Minor

Mathematics is an art, a science, and a language. It encompasses the beauty of pattern and structure, the challenge of uncertainty and abstraction, and the excitement of solving problems. Mathematics provides a foundation for much of modern human society.

A Middle School Education: Mathematics Concentration, B.S. is offered.

Program Requirements

Mathematics Minors must complete a total of 18 hours in the minor area to include:

Course Name	Term Taken	Grade	Gen Ed
MA 155 - Elementary Probability & Statistics (3) OR			
CR 230 - Social Statistics (3) OR			
EC 240 - Statistical Analysis (3) OR			
SO 230 - Social Statistics (3)			
MA 241 - Calculus & Analytic Geometry I (5)			
Choose at least 10 credit hours, with 6 credit hours above 300 level			
MA 230 - Discrete Mathematics (3)			
MA 242 - Calculus & Analytic Geometry II (4)			
MA 315 - Introduction to Advanced Mathematics (3)			
MA 320 - Linear Algebra (3)			
MA 330 - Mathematics & Its History (3)			
MA 340 - Modern Geometry (3-4)			
MA 355 - Advanced Probability & Statistics (3)			
MA 370 - Abstract Algebra (3)			
MA 380 - Special Topics in Mathematics (1-4)			
BU 350 - Data Science: Business Intelligence & Analytics (3)			
CS 215 - Into to Data Analysis using R (3)			

Outcomes

Mathematics minors will be expected to meet the following program outcomes.

Outcome 1.

The student will acquire appropriate foundational mathematical skills (MA 241).

Outcome 2.

The student will be able to communicate mathematical ideas orally and/or in writing (all chosen courses).

Outcome 3.

The student will demonstrate an understanding of the various areas of mathematics and the connections between them (All MA courses 200 level or above).

Outcome 4.

The student will be able to understand, construct, and present proofs of mathematical theorems (MA 230 and all MA courses 300 level or above).

Assessment

The outcomes for the Mathematics minor are assessed through a combination of course examinations and quizzes, written and performance assignments, individual and group projects, and board presentations.

Minor Note

- At least 18 semester hours in a subject area are required for a minor and at least 6 of these hours must be numbered 300 or above.
- A minimum of 9 hours must be unique between a major and a minor.
- A minimum of 9 hours in the minor must be earned at Avila University.
- A grade of “C” or better must be earned for all graded courses required for the minor.

Notes:

