BA/BS MAJOR IN MATHEMATICS

Requirements for a Bachelor of Arts or Bachelor of Science Degree with a Major in Mathematics

Additional Graduation Requirements (https://catalog.una.edu/undergraduate/academic-procedures-requirements/graduation-requirements/)

Code	Title	Hours			
General Education Component (https://catalog.una.edu/					
•	undergraduate/academic-procedures-requirements/general-				
education-comp	•				
Area I (Written 0		6			
	ties and Fine Arts) ¹	12			
Area III (Natural	Sciences and Mathematics)	11			
Area IV (History	, Social and Behavioral Sciences)	12			
Area V (https://	www.una.edu/areav/)				
Major Core Req	uirements in Mathematics				
MA 125	Calculus I ²	4			
or MA 125H	Honors Calculus I				
MA 126	Calculus II ²	4			
MA 227	Calculus III ²	4			
MA 237	Linear Algebra ²	3			
or MA 331	Linear Algebra with Proof				
or MA 431	Advanced Linear Algebra I				
MA 238	Applied Differential Equations I ²	3			
or MA 355	Differential Equations				
MA 325	Foundations of Mathematics	3			
MA 345	Applied Statistics I	3			
or MA 447	Mathematical Statistics I				
MA 420	Combinatorics and Graph Theory	3			
MA 437	Introduction to Abstract Algebra I	3			
MA 451	Introduction to Analysis	3			
MA 471W	Applied Mathematics	3			
Prescribed Math	n Electives: ²				
Select one of th	e following:	2			
MA 295	Undergraduate Directed Research				
MA 395	Undergraduate Directed Research				
MA 495	Undergraduate Directed Research				
MA 391	Mathematics Seminar				
MA 490	Undergraduate Math Mentoring				
Other Math Elec	tives: ²				
Select one of th	e following:	3			
MA 356	Applied Differential Equations II				
MA 421	College Geometry				
MA 425	Methods and Materials for Teaching Secondary				
	Mathematics				
MA 431	Advanced Linear Algebra I				
MA 432	Advanced Linear Algebra II				

	MA 438	Introduction to Abstract Algebra II		
	MA 445W	Applied Statistics II		
	MA 447	Mathematical Statistics I		
	MA 448	Mathematical Statistics II		
	MA 452	Advanced Calculus		
	MA 455	Complex Variables		
	MA 461	Numerical Analysis		
	MA 475W	Introduction to Operations Research		
	MA 491	Special Topics		
Р	rescribed Suppo	orting Courses:		
С	S 155	Computer Science I	3	
N	linor			
Miner consultation consultation and desire and desire and desired				

Minor, second major, second degree, or the education/certification block as determined by the College of Education and Human Sciences is required

General Electives

General elective hours to bring total to 120

Total Hours 120

- For BA degree, select six hours of a required foreign language at the introductory level
- These courses are required if not completed as part of the General Education component. Mathematics majors pursuing secondary certification must elect College Geometry (MA 421)
- Mathematic majors pursuing secondary certification must also take Methods and Materials for Teaching Secondary Mathematics (MA 425)