MATHEMATICS BS DEGREE REQUIREMENTS 2024 - 2025

OPTION I - PURE MATHEMATICS

Student name:	UNM ID:				
Concentration: Pure Mathematics		Minor (req):			
Admitted to program on:	as a (circle one of) FR / SO / JR / SR .				
Expected date of graduation:					
Student's interests:					
Completed Courses	Sem	Grade	Instructor	Pre-approved substitutions	
Math 1512 (162) Calc 1					
Math 1522 (163) Calc 2					
Math 2531 (264) Calc 3					
MATH 327 Intro Math thinking and Disc Structures					
MATH 321 Linear Algebra					
MATH 313 Complex Variable					
MATH 322 Modern Algebra I					
MATH 401 Advanced Calculus I					
Two from 319, 421, 431, 439, 441, 462, 472 #1					
#2					
MATH 402 (Spring) Adv Calc II					
Additional 300-level or above MATH 300 – 699 course #1					
Computing course at the level of ENG130L, CS 152L, PHYS 2415, or ECE 131L					
#1					
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Concentration Requirements

- Complete all of the following
 - o Complete the following:
 - MATH313 Complex Variables (3)
 - MATH322 Modern Algebra I (3)
 - MATH327 Introduction to Mathematical Thinking and Discrete Structures (3)

- MATH402 Advanced Calculus II (3)
- Earn at least 6 credits from the following:
 - MATH319 Theory of Numbers (3)
 - MATH431 Introduction to Topology (3)
 - MATH439 Topics in Mathematics (1 3)
 - MATH441 Probability (3)
 - MATH462 Introduction to Ordinary Differential Equations (3)
 - MATH472 Fourier Analysis and Wavelets (3)
 - MATH421 Modern Algebra II (3)
- o Earned at least 3 credits from MATH 300 699
- Students who are unfamiliar with mathematical abstraction are encouraged to take **327 as early in their program as possible.

Reference: https://catalog.unm.edu/catalogs/2023-2024/#/programs/r1mTQeXqs5/Bk7KIQ_jjq?bc=true&bcCurrent=Bachelor%200f%20Science%20in%20Mathematics&bcGroup=Mathematics%20%26%20Statistics&bcItemType=programs

Notes: Fall only: Math 322, 431, 441, 462, 464, 471; *Spring* only: Math 319, 402, 421, 463, 472 {Alternate Springs}; Offered upon demand: **MATH 439**.

Advisement History:

Date	Advised by	Semester	Recommended courses for semester

Minor in Mathematics

MATH 2530; 12 credit hours in Mathematics and Statistics courses numbered above 300. At least 6 of the 12 credit hours must be in courses labeled MATH. The Credit/No Credit grade option may not be used for minor study and the grades in all mathematics and statistics courses must be "C" (not "C-") or better. Courses required for a major may not be used to fulfill a minor requirement.

Minor in Statistics: Requirements for the Mathematics Major

MATH 1350 and 2530; STAT **345, 427, 428; an additional 3 credit hours of Statistics in courses numbered 300 and above. All 12 credit hours in courses 300-level and above must be in courses labeled STAT. The Credit/No Credit grade option may not be used for minor study and the grades in all statistics courses must be a "C" (not "C-") or better.