MATHEMATICS BS DEGREE REQUIREMENTS 2023 - 2024
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				

Concentration Requirements

- Complete all of the following
    - 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)
  - o 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
  - o 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%20of%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 Study Requirements, https://catalog.unm.edu/catalogs/2023-2024/#/programs/SysNNI-0c?bc=true&bcCurrent=Minor%20in%20Mathematics&bcGroup=Mathematics%20%26%20Statistics&bcItemType=programs
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.