MATHEMATICS BS DEGREE REQUIREMENTS 2024-2025 APPLIED MATHEMATICS					
Student Name			UNM ID#		
Major	Applied Math		Minor (req)		
Admitted Sem/Yr			FR/ SO/ JR/ SR		
Expected date of graduation					
Student's interests:					
Completed Courses	Semester	Grade	Instructor	Pre-approved Sub	Comments
Math 1512 (162) Calc 1					
Math 1522 (163) Calc 2					
Math 2531 (264) Calc 3					
Computing course at the level of ENG130L, CS 152L, PHYS 2415, or ECE 131L					
MATH 316 ODEs					
MATH 321 Lin Algebra					
At least 3 credits from MATH or STAT 300-699					
MATH311 or MATH402					
MATH 312 PDEs					
MATH 313 Complex Variables					
MATH 375 Num Computing					
MATH 401 Adv Calculus I					
Requirements per https://catalog.unm.edu					
Complete the following:					
MATH1512 - Calculus I (4)					
MATH1522 - Calculus II (4)					
MATH321 - Linear Algebra (3)					
MATH401 - Advanced Calculus I (4)					
MATH2531 - Calculus III (4)					
Note that MATH 401 is not required for the concentration in Mathematics of Computation.					
Earn at least 18 credits from the following types of courses:					
selected Concentration. See concentrations for requirements which vary.					
Earn at least 83 credits from the following types of courses:					
Complete the following:					
MATH312 - Partial Differential Equations for Engineering (3)					
MATH313 - Complex Variables (3)					
MATH316 - Applied Ordinary Differential Equations (3)					
MATH375 - Introduction to Numerical Computing (3)					
MATH401 - Advanced Calculus I (4)					

Complete at least 1 of the following:					
MATH311 - Vector Analysis (3)					
MATH402 - Advanced Calculus II (3)					
Earned a minimum grade of C in at least 1 of the following:					
MATH412 - Nonlinear Dynamics and Chaos (3)					
MATH441 - Probability (3)					
MATH462 - Introduction to Ordinary Differential Equations (3)					
MATH463 - Introduction to Partial Differential Equations (3)					
MATH464 - Applied Matrix Theory (3)					
MATH471 - Introduction to Scientific Computing (3)					
MATH472 - Fourier Analysis and Wavelets (3)					
Earned a minimum grade of C in at least 1 of the following:					
ENG130L - Introduction to Engineering Computing (3)					
CS152L - Computer Programming Fundamentals (3)					
PHYS2415 - Computational Physics (3)					
ECE131L - Programming Fundamentals (4)					
Earned at least 3 credits from MATH or STAT 300 - 699					
Minor in Mathematics					
MATH 2531; 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 Mathematics: Requirements for the Statistics Major					
MATH 2531; 12 credit hours of Mathematics courses numbered above 300. All 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 courses must be "C" (not "C-") or better.					

A double-starred (**) level course and may be taken for graduate credit by students enrolled in a graduate program outside of the department. A graduate student enrolled in a double-starred course numbered below 500 may be required to complete extra work.

This is a starred (*) level course and may be taken for graduate credit by students enrolled in a graduate program. A graduate student enrolled in a starred course numbered below 500 may be required to complete extra work.