STATISTICS BS DEGREE REQUIREMENTS 2024- 2025

STATISTICS

Student name: _____ UNM ID: _____

Major: **Statistics** 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 1350 (Stat 145) Intro Stats				
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 #1				
Math 314 or 321 Lin Algebra				
Stat 345 Elem Probability				
Stat 427 Advanced Data Analysis I				
Stat 428 Advanced Data Analysis II				
Stat 440 Regression Analysis				
Stat 445 Analysis of Variance and Experimental Design				
Six hours from STAT 250 - 499 (see *Note* 1) #1				
#2				
Six hours 250+ (Stat courses)				

Requirements

- Complete all of the following
  - Complete the following:
    - MATH1350 - Introduction to Statistics (3)
    - MATH1512 - Calculus I (4)
    - MATH1522 - Calculus II (4)

        - MATH2531 - Calculus III (4)
    - Complete at least 1 of the following:
        - MATH314 - Linear Algebra with Applications (3)
        - MATH321 - Linear Algebra (3)
    - Knowledge of an intro computing language.
    - Complete the following:
        - STAT345 - Elements of Mathematical Statistics and Probability Theory (3)
        - STAT427 - Advanced Data Analysis I (3)
        - STAT428 - Advanced Data Analysis II (3)
        - STAT440 - Regression Analysis (3)
        - STAT445 - Analysis of Variance and Experimental Design (3)
    - Earned at least 6 credits from STAT 250 - 499
    - Earn at least 6 credits from the following types of courses:

      Enrichment courses: At least 6 additional credit hours of courses numbered 300 or higher and approved by the student's undergraduate advisor. These can be taken in an appropriate discipline of the student's choice, for example: anthropology, biology, business, chemistry, computer science, economics, engineering, mathematics, psychology, and statistics. These courses may overlap with the student's minor.

    - For students interested in a career in actuarial science, preparation for the first actuarial exam consists of the courses MATH 1512, 1522, 2531, (**314 or **321). Preparation for the second actuarial exam consists of STAT 453, 461.
    - Students planning on pursuing a graduate degree in Statistics are encouraged to take MATH **321 and 401.
    - Earn at least 79 credits from the following types of courses:

      Completed at least 79 credits. In addition to the program-specific requirements outlined here, all undergraduate students are required to fulfill UNM's General Education Program requirements. In some instances, courses included in an undergraduate degree program's requirement may also fulfill a General Education requirement. Please review the General Education Program in this Catalog for General Education information. Students within the College of Arts and Sciences must also complete 1) a major and a minor; or 2) two majors; or 3) one of the special curricula of the College that requires no minor.

Reference: https://catalog.unm.edu/catalogs/2023-2024/#/programs/S17aQlm9s5?bc=true&bcCurrent=Bachelor%20of%20Science%20in%20Statistics&bcGroup=Mathematics%20%26%20Statistics&bcItemType=programs

Notes:

1. Must be advisor approved. Options: Anth, Biol, Chem, CS, Econ, Engr, Math, Mgt, Psy, Stat
2. For students interested in a career in actuarial science, preparation for the first actuarial exam consists of the courses MATH 1512, 1522, 2530/31 and (314 or 321). Preparation for the second actuarial exam consists of the courses STAT 453 and 461.
3. Students planning on pursuing a graduate degree in Statistics are encouraged to take MATH 321 and 401.

Advisement History:

Date	Advised by	Semester	Recommended courses for semester

Minor Study Requirements, https://catalog.unm.edu/catalogs/2023-2024/#/programs/ryWWXUbRc?expanded=Mathematics%20%26%20Statistics&bc=true&bcCurrent=Minor%20in%20Statistics&bcGroup=Mathematics%20%26%20Statistics&bcItemType=programs

- Complete all of the following
  - Minor in Statistics: Requirements for the Mathematics Major
  - Complete the following:
    - MATH1350 - Introduction to Statistics (3)
    - STAT345 - Elements of Mathematical Statistics and Probability Theory (3)
    - STAT427 - Advanced Data Analysis I (3)
    - STAT428 - Advanced Data Analysis II (3)
    - MATH2531 - Calculus III (4)
  - Earned at least 3 credits from STAT 300 - 499

Minor in Statistics
One year of calculus: MATH 1350, (1430 and 1440) or (1512 and 1522); STAT **345, 427, 428; an additional 3 credit hours of mathematics or statistics in courses numbered 250 and above. 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.

Minor in Statistics: Requirements for the Mathematics Major
MATH 1350 and 2531; 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.