

◀ PhD Hlth Equi Sci - Doctor of Philosophy in Health Equity Sciences

# **CON Bio Stat** **Biostatistics**

Under Review | Fall 2025

## Proposal Information

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**Status**

Active

**Workflow Status**

In Progress

**Faculty Senate, Faculty Senate**

Waiting for Approval | Faculty Senate Approval

expand ▲

Nancy Middlebrook

Theresa Sherman

**Changes**

- Concentration Requirements
- Degree Requirements
- Proposed Effective Term and Year
- Concentration Justification
- Select any associated course forms that exist

Show All ▼

## Proposal Information

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**Sponsoring faculty/staff member** ⓘ

Pamela Sedillo

**Sponsoring faculty/staff email**

psedill1@salud.unm.edu

**College**

College of Population Health

**Department**

Population Health

**Campus**

Health Sciences Center  
(Albuquerque)

## Effective Term and Year

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Proposed

**Proposed Effective Term and Year**

Fall 2025

Existing

**Proposed Effective Term and Year**

Spring 2024

## Justification

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Proposed

**Concentration Justification**

Updating courses in concentration for clarity and selection for students to choose from .

Existing

### Concentration Justification

Correcting concentration requirements that were transferred from the old catalog to the new catalog incorrectly. No curriculum changes have been requested, this is only to correct the 23-24 catalog to reflect the changes not imported from the 22-23 catalog correctly.

## Associated Forms

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Proposed

### Select any associated course forms that exist

PH 622 - Causal Inference Methods in Epidemiology (3) |

Under Review

Existing

### Select any associated course forms that exist

Proposed

### Select any associated program forms that exist

PhD Hlth Equi Sci

Existing

### Select any associated program forms that exist

## Program Information

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### Degree Name

PhD Hlth Equi Sci - Doctor of Philosophy in Health Equity Sciences

### Degree Type

Doctor of Philosophy

### Program Type

Doctoral

### Program Description

No Parent Selected

### Degree Hours

66

### Minimum Major Hours

### Degree Requirements

- Complete all of the following
  - Complete the following:
    - ~~PH539—Advanced Biostatistics (3)~~
  - Earn 18 credit hours in Advanced Research Methods Courses (6 hours must be quantitative methods). See specific concentration for detailed course information.
  - ~~or NMSU's CEP 636 Advanced Statistics~~
  - Complete at least 1 of the following:
    - ~~STAT574—Biostatistical Methods: Survival Analysis and Logistic Regression (3)~~
    - ~~PH537—Advanced Epidemiology Methods (3)~~

- NURS613—Mixed Methods Research- (3)
  - PH684—Advanced Health Policy Analysis- (3)
- Earn 3 credit hours in Doctoral Seminar Courses. See specific concentration for detailed course information.
- Earn at least 12 credits from the following types of courses:  
see concentrations for required or elective courses.
- Earn 2 credit hours in Skill Building Courses. See specific concentration for detailed course information.
- Earn 12 credit hours in Concentration Required Courses. See specific concentration for detailed course information.
- Earn at least 1 credits from the following types of courses:  
Dissertation proposal writing
- Earn 13 credits from transfer credits and electives. See specific concentration for detailed course information.
- Earn at least 2 credits from the following types of courses:  
see concentration for required or elective courses.
- Earn at least 3 credits from the following:
  - PH690—Doctoral Seminar (1–3)
- Earn at least 18 credits from the following:
  - PH699—Doctoral Dissertation Hours (3–12)
- Earn at least 24 credits from the following types of courses:  
Coursework from: concentration, electives and M.A. transfer credit. See advisor for requirements.
- Earn 18 credit hours of Doctoral Dissertation hours. See specific concentration for detailed course information.

## Concentration Information

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### Concentration Title

Biostatistics

### Program Level

Graduate

### Concentration Requirements

- Complete all of the following
  - Earn at least 3 credits from the following:
    - PH539—Advanced Biostatistics- (3)
    - EDPY603—Applied Statistical Design and Analysis- (3)
  - Earn at least 3 credits from the following:
    - STAT574—Biostatistical Methods: Survival Analysis and Logistic Regression- (3)
    - PH537—Advanced Epidemiology Methods- (3)
    - NURS613—Mixed Methods Research- (3)
    - PH684—Advanced Health Policy Analysis- (3)
  - Earn at least 6 credits from the following:
    - EDPY604—Multiple Regression Techniques as Applied to Education- (3)
    - EDPY608—Multilevel Modeling- (3)
  - Earn at least 6 credits from the following:

- PH556—Community Participatory Based Research- (2–3)
- PH558—Intervention Research with Marginalized Populations- (3)
- CJ604—Survey of Qualitative Research Methods- (3)
- EDPY515—Survey and Questionnaire Design and Analysis- (3)
- STAT576—Multivariate Analysis- (3)
- Course Not Found
- Course Not Found
- PH660—Doctoral Special Topics- (1–6)
- STAT556—Advanced Statistical Inference I- (3)
- Earn at least 1 credits from the following:
  - PH511—Dissertation Proposal Writing- (1)
- Earn at least 1 credits from the following:
  - OILS583—Graduate Teaching I- (1–3)
  - PH593—Independent Studies- (1–3)
  - PH660—Doctoral Special Topics- (1–6)
- Earn at least 3 credits from the following:
  - PH690—Doctoral Seminar- (1–3)
- Earn at least 6 credits from the following:
  - PH630 - Biostatistics Interdisciplinary Capstone Course (3)
- Earn at least 6 credits from the following types of courses:  
 PSYC: 650-ST: Analysis of Data OR PSYC: 650-ST: Hierarchical Linear Modeling OR PSYC: 650-ST: Meta-Analysis OR PSYC 650-ST: Quasi-Experimental Design OR Additional 600-level courses offered at NMSU can be taken to fulfill this requirement. See faculty mentor for approval.
- Earn at least 6 credits from the following:
  - PH621 - Special Topics in Advanced Epidemiology (1 - 6)
  - EDPY607 - Structural Equation Modeling (3)
  - PH622 - Causal Inference Methods in Epidemiology (3)
  - PH660 - Doctoral Special Topics (1 - 6)
  - PH539 - Advanced Biostatistics (3)
  - EDPY603 - Applied Statistical Design and Analysis (3)
  - EDPY604 - Multiple Regression Techniques as Applied to Education (3)
  - EDPY608 - Multilevel Modeling (3)
  - STAT561 - Probability (3)
  - STAT553 - Statistical Inference with Applications (3)
  - STAT574 - Biostatistical Methods: Survival Analysis and Logistic Regression (3)
  - STAT527 - Advanced Data Analysis I (3)
  - STAT556 - Advanced Statistical Inference I (3)
  - STAT576 - Multivariate Analysis (3)
- Earn at least 13 credits from the following types of courses:  
 MPH Level Prerequisites: PH 501-Determinants of Health Equity in Public Health, PH 502-Epidemiology and Biostatistics I, PH 538-Epi and Biostats Lab, PH 552-Interventions in Health Equity.
- Earn at least 18 credits from the following:
  - PH699—Doctoral Dissertation Hours- (3–12)

## Grand Total Credits: 12

### Concentration Description

## Biostatistics (Shared UNM and NMSU)

This shared concentration will provide instruction on using advanced statistical concepts and procedures to measure health-related constructs and analyze data sets ranging from small-scale research project outputs to large population-scale epidemiological databases.