

Additional Prerequisites or Requirements for

Masters of Science (MS) and Doctor of Philosophy (PhD) degrees in Biostatistics

The following undergraduate courses (or their equivalents) are prerequisites for the Master of Science and Doctor of Philosophy programs in Biostatistics:

Calculus and Analytic Geometry I. Topics covered include equations of straight lines; conic sections; functions, limits and continuity; differentiation; maximum-minimum theory and curve sketching.

Calculus and Analytic Geometry II. Integration and its applications; the calculus of transcendental functions; techniques of integration; and the introduction to differential equations.

Calculus and Analytic Geometry III. Polar coordinates, parametric equations, sequences, infinite series, vector analysis.

Calculus and Analytic Geometry IV. Vector calculus; functions of several variables; partial derivatives; gradients, extreme values and differentials of multivariate functions; multiple integrals; line and surface integrals.

A course in Linear Algebra is also required for PhD applicants.

*Information is based on OU-Norman undergraduate courses. Courses from other institutions must be equivalent. OU-Norman also teaches two mathematical statistics courses that are equivalent to two courses taught in the MS Biostatistics program.