

Prerequisite Coursework

For Admission to Agricultural Economics (PhD) | University of Nebraska-Lincoln



Applicant Full Name

Applicant Email Address

Date

Course at UNL	Equivalent Course You Have Taken		
	Institution	Course Number and Title	Grade
MATH 107: Calculus II			
MATH 208: Calculus III			
AECN 815: Analytical Methods in Economics and Business			
AECN 873: Microeconomic Models and Applications			
AECN 877: Macroeconomic Models and Applications			

Course Descriptions (for reference)

MATH 107: Calculus II

Integration theory; techniques of integration; applications of definite integrals; series, Taylor series, vectors, cross and dot products, lines and planes, space curves.

MATH 208: Calculus III

Vectors and surfaces, parametric equations and motion, functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Green's Theorem, and applications.

AECN 815: Analytical Methods in Economics and Business

Equilibrium Analysis: Applications in business, finance, and economics. Market equilibria, accumulations, and economics. Optimization: profit, cost, and utility functions. Constrained optimization problems with utility functions. Constrained optimization problems in

production and consumer allocations; Kuhn and Tucker conditions; static and dynamic input-output Models.

AECN 873: Microeconomic Models and Applications

Analysis of microeconomic decision-making by individuals and firms with emphasis on consumer demand, production, cost and profit, market structure and the economics of games, uncertainty, and information.

AECN 877: Macroeconomic Models and Applications

Course prepares student for applied macroeconomic analysis in a business, governmental or academic setting. Empirical modeling strategies are developed from theoretical underpinnings to implementation, including data collection, estimation, forecasting, simulation, presentation and interpretation.