

Prerequisite Courses for Successful Graduate Studies

I frequently get emails from potential graduate students all over the world wanting to get into graduate program in agricultural/applied economics. Unfortunately, most of the applicants do not realize the amount of mathematics, statistics & probability theory, and undergraduate economics courses preparation needed for performing well in the graduate studies.

If you plan to get a M.S. degree and then go on for Ph. D. in Economics or Agricultural Economics and pursue a career in academics (particularly doing teaching and research), you would be better off taking the following courses and knowing the materials before entering a graduate program.

Math Courses

Pre-calculus Algebra and Analytic Geometry

Analytic Trigonometry

Analytical Geometry and Calculus I

Analytical Geometry and Calculus II

Analytical Geometry and Calculus III

Introduction to Higher Mathematics

Ordinary Differential Equations

Linear Algebra

Stat Courses

Statistical Methods

Probability and Statistics

Statistical Analysis

Probability Theory

Mathematical Statistics

These math and stat courses are not an exclusive set by any means. Taking additional math and probability theory courses would be very useful.

Undergraduate Econ Courses

Principles of Macroeconomics

Principles of Microeconomics

Intermediate Macroeconomic Analysis

Intermediate Microeconomic Analysis

Money and Banking

International Economics

International Trade

International Finance

Labor Economics
Monetary Economics
Natural Resource Economics
Environmental Economics
Development Economics
Industrial Organization
Econometrics
Game Theory