

FARE 6970: Quantitative Methods for Agricultural Economists

Course Outline – Fall 2016

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 MCLN 309
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COURSE LOGISTICS Lecture: Tuesday and Thursdays 01:00PM - 02:20PM MCKN 306
 Lab: Wednesdays 02:30PM - 03:50PM MCLN 101
 Office Hours: Tuesday and Thursdays 10:00AM - 11:00AM

COURSE DESCRIPTION

The objective of this course is for the students to learn common empirical methods that food, agricultural, and resource economists use when conducting research. Emphasis will be placed on econometric methods and writing code. We will use R for this course.

TEXTBOOK

There is no required text for this course however any standard graduate level mathematical statistics and econometrics texts will prove most useful. Examples: Casella and Berger; Peter Kennedy; Davidson and MacKinnon; Greene.

GRADING

There will be multiple homework assignments throughout the course. These will be equally weighted and represent 25% of your final grade. The midterm and final exams are weighted 35% and 40% of your final grade respectively.

TENTATIVE TOPICS COVERED

We will be covering the following topics as time permits: Probability, Random Variables, Linear Regression, Instrumental Variables, GMM, Hypothesis Testing, Nonparametric Estimation, Bayesian Econometrics, Time Series.