Economics/Public Affairs 9446
Advanced Empirical Methods

Fall 2019 – Class Meetings Days/Times: Tues/Thurs 11-12:15, Middlebush Hall 206
Professor Cory Koedel
Email: koedelc@missouri.edu
Office hours: Tuesday, 12:45-2, Professional Bldg #318

Prerequisites: 8451, 8473 (concurrent enrollment acceptable), 9473 is recommended.

OBJECTIVES:
The objective of this course is to provide a comprehensive toolkit for the evaluation of key economic policy questions in the areas of applied economics including labor economics, public economics, education economics, health economics and social welfare. The course will cover the most current and relevant empirical techniques in these fields, and provide context and examples of applications.

Grading:

Assignments: 30 percent
Midterm Exam: 15 percent
Final Exam: 25 percent
Research Paper Proposal: 5 percent
Research Paper & Presentation: 25 percent

Assignments: There will be three empirical assignments over the course of the semester. The assignments will involve the practical application of the empirical tools that you will learn about in the course.

Exams: The midterm will be given between weeks 7 and 9 of the semester. The final exam will be given during final exam week at the university-specified time.

Papers: The paper assignment will be discussed during the first week of class. The requirement will be a paper that is between 8 and 15 pages in length. Papers are to be submitted in hard-copy form.
Topics and Reading List (Rough Guide)

**Methodological Overview**


(This book will be a useful reference for the entire course. Chapters 1-5 will be most relevant)

**Experimental Research Designs**


**Multiple Regression Methods**


**Fixed Effects**


Ashenfelter, Orley and Alan Krueger (1994). "Estimates of the Economic Return to Schooling from a New Sample of Twins," *American Economic Review*. (Note: This paper uses both instrumental variables and fixed effects. IV methods will be covered in detail later in the course.)


Differences-in-Differences


Instrumental Variables


