**Econ 117a. Introduction to Data Analysis and Econometrics**

**Day / time:** T/Th 1:00 - 2:15 pm  
**Course Type:** Undergraduate  
**Course term:** Fall  
**Year:** 2018  
**Instructor(s):** Nicholas Ryan

Core course

Introduction to data analysis from the beginning of the econometrics sequence; exposure to modern empirical economics; and development of credible economic analysis. This course emphasizes working directly and early with data, through such economic examples as studies of environmental/natural resource economics, intergenerational mobility, discrimination, and finance. Topics include: probability, statistics, and sampling; selection, causation and causal inference; regression and model specification; and machine learning and big data.

Prerequisites: ECON 108, 110, 115, or equivalent and familiarity with single variable calculus. Students who have taken 131 will not receive major credit for 117

**Undergrad Course Category:** Core  
**Methodology**  
**Prerequisite List:** Only intro micro as prerequisite

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