**Trinity College**

**Department of Economics**

**ECON 318: Basic Econometrics**

**Course Syllabus (First Revision), J-Term 2021**

**Instructor Information**

Professor: Dr. Mark Stater Class Location: N/A

Office: Williams 313 Class Time: TWRF 10:00AM – 11:40 AM

Phone: 860-297-2462 Mode of Instruction: Remote; Course Length: 5 weeks

E-mail: Mark.Stater@trincoll.edu Office Hours: by Zoom appointment

**Course Description.** This course will cover the formulation and estimation of linear regression models, the properties of Ordinary Least Squares estimators under the Classical Assumption, hypothesis testing for regression coefficients, and detection and remediation of econometric problems such as endogeneity, model misspecification, heteroskedasticity, serial correlation, multicollinearity, and non-normality. The focus will be on cross-sectional data, but time series analysis will also be discussed. We will learn how to estimate models with Stata and RStudio.

**Textbook.** *Using Econometrics: A Practical Guide*, 7th edition, by A.H. Studenmund

**Grading.** Problem Sets 10%, Quizzes 10%, Midterm Exam 40%, Final Exam 40%. Problem Sets will include written and computer problems. Quizzes will be offered online. Exams will be take-home.

**Calendar.** Week 1: Linear regression model and OLS estimation (Chs 1-3).

Week 2: Classical Assumptions, Gauss-Markov Theorem (Ch 4). PS 1 due Tues. Quiz 1 Thurs.

Week 3: T-tests and F-tests (Ch 5). PS 2 due Tues. Quiz 2 Wed. Midterm Exam due Fri.

Week 4: Endogeneity, heteroskedasticity (Chs 6, 7, 10). PS 3 due Tues. Quiz 3 Thurs.

Week 5: Serial correlation, multicollinearity, non-normality (Chs. 8, 9). PS 4 due Tues. Quiz 4 Wed.

*Final Exam due Friday, February 5.*

**Academic Integrity.** In all academic exercises, students are expected to abide by the standards of intellectual honesty set forth in the Trinity College Student Handbook (see p. 13). This assumes students do their own work and properly credit those upon whose work and thought they draw.

**ADA Accommodations.** Trinity College is committed to creating an inclusive and accessible learning environment consistent with the Americans with Disabilities Act. If you have approval for academic accommodations, please notify faculty a minimum of 10 days prior to needing the accommodations. Please be sure to meet with me privately to discuss implementation.