# ECON 301: Econometrics I

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| **Instructor:** | Mirza Trokić | |
| **Office:** | A105 | |
| **Phone:** | 290-1890 | |
| **Office Hours:** | Mondays | 10:40-11:30 |

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| **Semester:** | Spring 2015 | |
| **Section:** | 2 | |
| **Lecture Hours:** | Mondays | 13:40-15:30 |
| | Thursdays | 09:40-10:30 |
| **Room:** | B112 | |

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| **Teaching Assistant:** | Burak Alparaslan Eroğlu | |
| **TA Hours:** | Wednesdays | 16:40-17:30 |
| **Room:** | B112 | |
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The course website will be: http://www.mirzatrokic.ca/index.php/teaching/econ301

## Course Description

This course will introduce basic theoretical and applied econometric techniques. Economic applications will be emphasized through computer based exercises and lab sessions.

## Course Literature

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| **Main Text:** | Wooldridge (2012) |
| **Recommended Texts:** | Gujarati (2003) and Davidson and MacKinnon (2004) |

Although the material covered in class is of primary interest, you are **strongly** encouraged to partake in self-study from the resources suggested. It is also **imperative** to do as many problems from the textbooks as you possibly can! The **only** way you will succeed in this course is if you attend lectures regularly and solve many practice problems!

## Course Software

Homework assignments may require the use of statistical software. The typical software of choice at this level is *EViews, STATA, R, Matlab*, etc. Although lab sessions will make use of EViews, you are of course more than welcome to use any software of your choosing. Data files required for homework and lab sessions will be made available on the course website.

## Course Outline

Topic 1 Introduction (Simple Regression Model)
Topic 2 Multiple Regression Model (Estimation and Properties)
Topic 3 Inference and Hypothesis Testing
Topic 4 OLS Asymptotics
Topic 5 Empirical Issues and Prediction
Topic 6 Midterm and Review
Topic 7 Regression with Qualitative Data
Topic 8 Heteroskedasticity
Topic 9 Data Issues
Topic 10 Basic Regression Analysis with Time Series Data

Topic 11 Serial Correlation and Heteroskedasticity in Time Series Regressions

Topic 12 Insturmental Variables and 2SLS

## Grading

The grading breakdown for the course is as follows:

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| **Class and Lab Participation:** | 10% |
| **Quizzes/Assignments:** | 20% |
| **Midterm:** | 30% |
| **Final Exam:** | 40% |

Regularly administered assignments will be posted on the course web page. You are **expected** to hand in your assignments in class on the day they are due! The T.A. will grade all submitted assignments and return them to you so that you may learn from them. Late assignments will **not** be accepted and there will be **no** makeup for missed assignments.

There will be a short in-class quizzes at the beginning of class on the day each assignment are due. Quizzes **cannot** be made up if you miss them or show up late to class on the day they are administered.

# References

Russell Davidson and James G MacKinnon. *Econometric theory and methods*. Oxford University Press New York, 2004.

D.N. Gujarati. *Basic econometrics*. McGraw Hill, 2003.

Jeffrey Wooldridge. *Introductory econometrics: A modern approach*. Cengage Learning, 2012.