

## **DRAFT SYLLABUS**

ECON 310: Data Analysis for Economics

Instructor: XXX

Required Textbook: *Essential Statistics, Regression, and Econometrics*, 2<sup>nd</sup> ed., Gary Smith, Elsevier, 2015.

Course Description: The course surveys the statistical tools relevant to empirical economics: measures of central tendency and dispersion, hypothesis testing, correlation, and regression. The use of computer software for statistical analysis is illustrated. Obtaining data, and reading and carrying out basic empirical research are also covered.

Prerequisites: Students must have completed with C or better: ECON 101, ECON 102, and MATH 151 or MATH 155.

Students who have completed or are concurrently taking STAT 350 or 351 or 355 will not receive credit for ECON 310.

Course Outline (chapter from Smith):

### Part I

- Data (1)
- Displaying Data (2)
- Descriptive Statistics (3)
- Probability (4)

### Part II

- Sampling (5)
- Estimation (6)
- Hypothesis Testing (7)

### Part III

- Simple regression (8, 9)
- Multiple regression (10)
- Modeling (11)

Grading:

Exams: 2 midterm exams @ 20%, 1 cumulative final @ 35%

Quizzes: 10% (5 @ 2%)

Data Analysis Assignments: 15% (3 @ 5%)

Final grade calculation:  $.20 \times \text{midterm 1} + .20 \times \text{midterm 2} + .35 \times \text{final exam} + .10 \times \text{quizzes average} + .15 \times \text{assignments average}$

A: 90+

B: 80-89

C: 70-79

D: 60-69

F: Below 59

#### UMBC Statement on Academic Integrity:

“By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC’s scholarly community in which everyone’s work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.”

More information is available at: <http://oue.umbc.edu/home/academic-integrity/resources-for-students/>

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- receive and maintain **confidential** files of disability-related documentation,
- certify eligibility for services,
- determine reasonable accommodations,
- develop with each student plans for the provision of such accommodations, and
- serve as a liaison between faculty members and students regarding disability-related concerns.

If you have a documented disability and need to request academic accommodations, please refer to the SDS website at [sss.umbc.edu](http://sss.umbc.edu) or contact the office by phone at 410-455-2459, via email at [sss@umbc.edu](mailto:sss@umbc.edu), or in person in Math/Psychology Room 213. If you require accommodations for this class, make an appointment to meet with me to discuss your SDS-approved accommodations.

More information is available at: <http://sds.umbc.edu/>