

Course Syllabus

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Statistical Tools for Applied Economics Research

(ECON 4660)

Prerequisites: Economics 4650

Course description:

The field of economic statistics and econometrics is rapidly changing. Increasing data availability combined with powerful computing and advanced software allows research to address issues of statistical inference and analysis in innovative ways. This course provides students with practical knowledge and skills to take advantage of these new developments. The course is a prerequisite for Economics 4670, Economic Research in the Community.

Course learning outcomes:

- Develop skills related to modern multivariate statistical analysis
- Provide practical experience related to data analysis
- Develop skills in using advanced statistical software
- Develop skills in summarizing information directed to practical decision making

Course overview:

This course extends traditional econometrics by introducing modern multivariate statistical tools via real-world applications. Over the course of the semester, students will learn how to use computing software to address issues of large data, non-experimental methods, exploratory data analysis, and visualization. Special topics in the class include survey design, factor analysis, causality, nonlinear system modeling, multivariate time series, and Bayesian statistics. All topics are presented in a hands-on manner and students will work through sets of examples using topic templates. The suggested text is: *Data Science for Business* (Provost and Fawcett, ISBN: 978-1-449-36132-7 / <http://www.data-science-for-biz.com/> (<http://www.data-science-for-biz.com/>)).

During the semester the class will be involved in:

- Lectures and discussions
- Practical data analysis using real-world data
- Learning advanced statistical software and programming
- Learning how to generate publication quality output from statistical software (R)

Grading (1st term)

In class assignments	50%
End of term assignment	50%

Grading (2nd term):

Project conceptualization:	15%
Progress reports and presentations:	20%
Final report:	25%
Final presentation:	25%
Team evaluations:	15%

Date

Details

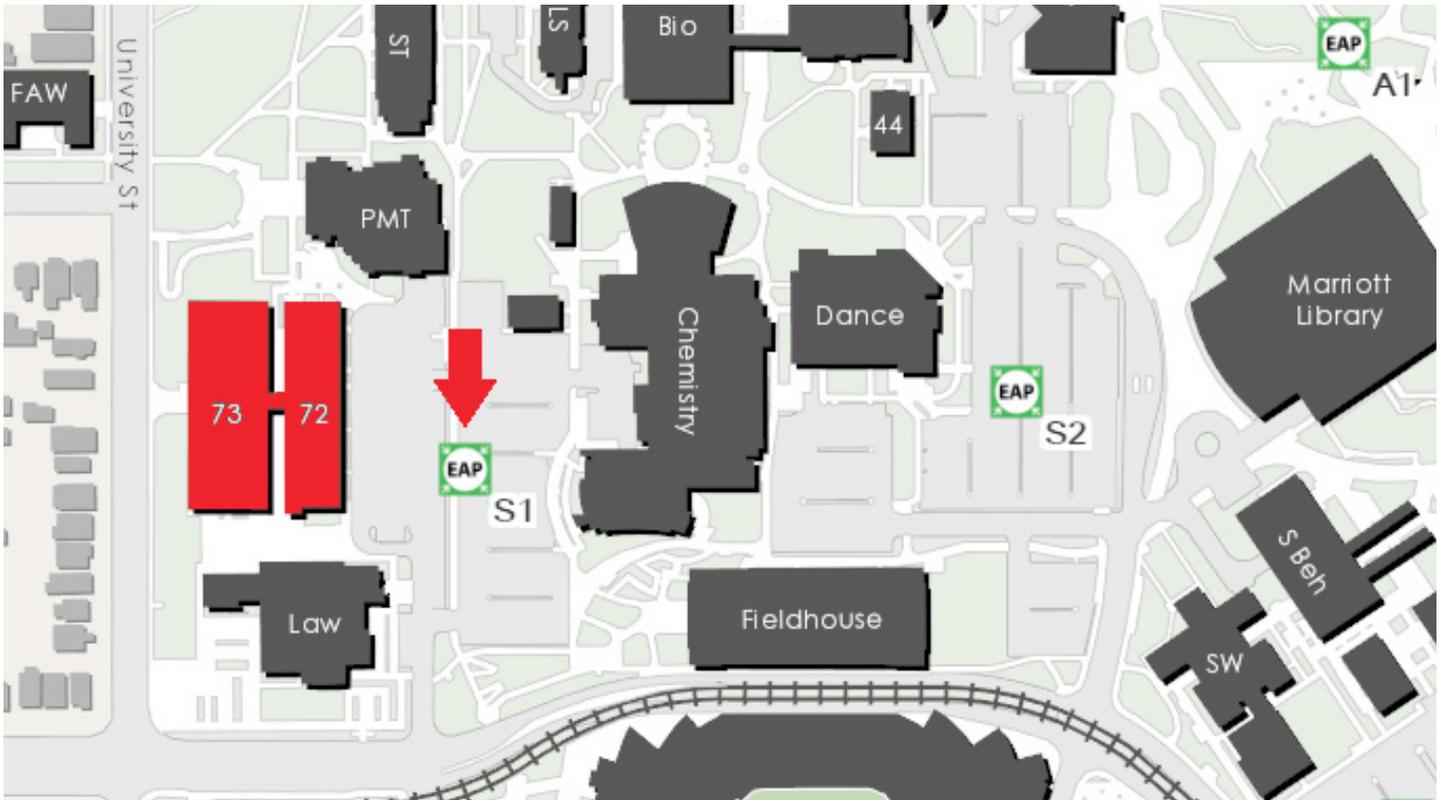
Course Summary:

Date

Details



CSBS EMERGENCY ACTION PLAN



BUILDING EVACUATION

EAP (Emergency Assembly Point) – When you receive a notification to evacuate the building either by campus text alert system or by building fire alarm, please follow your instructor in an orderly fashion to the EAP marked on the map below. Once everyone is at the EAP, you will receive further instructions from Emergency Management personnel. You can also look up the EAP for any building you may be in on campus at <http://emergencymanagement.utah.edu/eap>.



CAMPUS RESOURCES

U Heads Up App: There's an app for that. Download the app on your smartphone at alert.utah.edu/headsup to access the following resources:

- **Emergency Response Guide:** Provides instructions on how to handle any type of emergency, such as earthquake, utility failure, fire, active shooter, etc. Flip charts with this information are also available around campus.
- **See Something, Say Something:** Report unsafe or hazardous conditions on campus. If you see a life threatening or emergency situation, please call 911!

Safety Escorts: For students who are on campus at night or past business hours and would like an escort to your car, please call **801-585-2677**. You can call 24/7 and a security officer will be sent to walk with you or give you a ride to your desired on-campus location.