SAS Coding and Data Analytics

Last Updated: Mon, 01/05/2026

Course prefix: ECON

Course number: 4803/8803

Section: AU1/AU3

CRN (you may add up to five):
34685 35266

Instructor First Name: Aselia

Instructor Last Name: Urmanbetova

Semester: Spring

Academic year: 2026

Course description:

This comprehensive SAS programming course is specially designed for both undergraduate and graduate students seeking to build strong foundations in data manipulation, AI-assisted ML and model analysis, and reporting with applications in economics, statistics, business, and other data-driven analytics. The program also includes exposure to SAS cloud-based integration with SQL, Python and R, providing students with a versatile set of modeling and data-based reporting skills.

Course learning outcomes:

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· Build a strong foundation in SAS programming

· Develop skills to manipulate economic and statistical data effectively

· Perform complex queries and econometric analyses

· Create professional economic reports and visualizations

· Apply statistical methods to economic problems

· Gain industry-recognized certifications

Required course materials:

All course materials are developed in cooperation with the SAS Institute and provided free of charge.

Grading policy:

Grading Structure

The course uses specifications grading based on the number of certification tracks completed:

- To get an **A**, undergraduate students will be required to complete **three** in-depth data projects. Two and one project completions will be sufficient to attain grades B and C, respectively.
- Similarly, graduate students will be required to complete **four** in-depth data projects for grade **A**. Three and two project completions will be sufficient to attain grades B and C, respectively.

Attendance policy:

This is a partially flipped course and regular class attendance is essential for successful learning outcomes.

Academic honesty/integrity statement:

Students are expected to maintain the highest standards of academic integrity. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic integrity policy.