

DATA SCIENCE IN ECONOMICS OPTION

This option is available within the Economics (<https://catalog.oregonstate.edu/college-departments/liberal-arts/school-public-policy/economics-ba-bs-hba-hbs/>) major at the following locations:

- Corvallis

As the economics profession becomes increasingly data driven, employers are increasingly in need of economics majors with skills in data science and data analytics. The Data Science in Economics option provides the necessary coursework in data science, data analysis, causal inference, coding, and data visualization and data management to develop the skills sought after in data science and data analytics career paths.

Option Code: A058

Options follow the learning outcomes of the major. For this option, refer to the learning outcomes of the Economics (<https://catalog.oregonstate.edu/college-departments/liberal-arts/school-public-policy/economics-ba-bs-hba-hbs/#learningoutcomestext>) major.

Code	Title	Credits
Required Core		
DS 201	+INTRODUCTION TO DATA SCIENCE	4
DS 231	PYTHON PROGRAMMING FOR DATA SCIENCE	4
DS 431	STATISTICAL LEARNING FOR DATA SCIENCE	3
MTH 267	LINEAR ALGEBRA FOR DATA SCIENCE	3
Area Coursework		
<i>Causal Inference</i>		
ECON 425	ECONOMETRICS FOR CAUSAL INFERENCE	4
DS 455	CAUSAL INFERENCE FOR EXPERIMENTAL AND OBSERVATIONAL DATA	3
<i>Data Visualization</i>		
ST 437	DATA VISUALIZATION	3
<i>Experiments, Surveys, and Samples</i>		
Select two courses from the following:		6
ST 415	DESIGN AND ANALYSIS OF PLANNED EXPERIMENTS	
ST 431	SAMPLING METHODS	
ST 439	SURVEY METHODS	
Elective		
Select one course from the following:		3-4
DS 451	METHODS OF DATA ANALYSIS FOR COMPLEX AND NETWORK DATA	
DS 453	BAYESIAN MODELS FOR DATA SCIENCE	
MTH 470	MATHEMATICS OF DATA SCIENCE	
ST 415	DESIGN AND ANALYSIS OF PLANNED EXPERIMENTS (if not used above)	
ST 431	SAMPLING METHODS (if not used above)	
ST 436	R PROGRAMMING FOR DATA	
ST 439	SURVEY METHODS (if not used above)	
Total Credits		33-34

+ Core Education course. Applies to general education requirements for undergraduate students in catalog year 2025-2026 and beyond

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