

Applied Data Science Minor

The Applied Data Science Minor is an interdisciplinary university-wide undergraduate program offered by the McCourt School of Public Policy (<https://mccourt.georgetown.edu>). Designed for students looking to merge substantive domain knowledge with cutting-edge analytical tools, the program provides core statistical knowledge, algorithmic thinking, and hands-on experience with real-world data science projects. Students learn to manage complex datasets, design compelling visualizations, and critically analyze the ethical dimensions of data science—such as privacy and algorithmic bias—across diverse fields.

By bridging foundational computational techniques with field-specific applications, this minor prepares students to lead with data-driven insights in both academic and professional domains

Study Abroad

Students who study abroad may transfer one approved elective course towards the Applied Data Science minor. Students wishing to transfer courses need to provide their study plans to the Minor Director prior to departure in order to identify an eligible elective course that satisfies minor requirements. Students will have to provide detailed syllabi to the Minor Director when they return to campus for approval of transfer credit. Following a successful review, students need to complete and submit the Evaluation of Transfer Credit Form (<https://college.georgetown.edu/advising/forms/>) with their Advising Dean in order to successfully transfer the credits.

More Information

For more information about the undergraduate Public Policy major, please visit the Joint Program in Public Policy (<https://mccourt.georgetown.edu/joint-program-in-public-policy/>) website.

Contact the Director of the Applied Data Science Minor (mccourtjppp@georgetown.edu) with any particular questions about the minor, electives, study abroad, or transfer course credit.

Requirements

The minor consists of a **six-course curriculum** that requires no prerequisite courses to get started:

Code	Title	Credits
Introduction to Data Science (1 course)		
A foundational core course focusing on data concepts and basic computational skills, taught on the Hilltop campus.		
PPOL 3602	The World of Data	3
	or COSC 1016The World of Data	
Applied Statistics (1 course)		3
A core requirement focusing on regression methods, satisfied through a variety of existing approved courses across both campuses.		
PPOL 3000	Intro to Stats & Data Analysis	
GOVT 2201	Analysis of Political Data I	
ECON 2110	Economic Statistics	

MATH 2140	Intro Math Statistics
OPAN 2101	Business Statistics
BSFS 3200	Quant Methods: Intrnl Affairs

Machine Learning (1 course)

An advanced core requirement introducing data science tools and statistical learning.

MATH 2620	Statistical Learning & DataSci ¹	3
	or PPOL 5204 Data Science II: App Stat Lng	

Electives (2 Courses)

6

Chosen from an extensive, cross-disciplinary list of classes offered on both the Hilltop and Capitol campuses, covering topics ranging from Data Visualization and Text as Data to AI Ethics and Geographic Information Systems (GIS).

Capstone (1 course)

A culminating core research course taken on the Capitol Campus, where students apply their accumulated data science skills to a substantive project of personal interest, such as policy evaluation, economic modeling, or biological forecasting.

PPOL 4601	3
-----------	---

Total Credits

18