DATA ANALYTICS AND POLICY, MS/INTELLIGENCE, CERTIFICATE

MS in Data Analytics and Policy/ Certificate in Intelligence (https:// advanced.jhu.edu/academics/graduate/ ms-data-analytics-policy/ms-in-data-analytics-and-policy-and-certificate-in-intelligence/)

Students pursuing a Master of Science in Data Analytics and Policy may combine their degree with the Certificate in Intelligence program. This combined credential prepares graduates for careers in the U.S. Intelligence Community and in those parts of the government and private sector that use intelligence or work with the Intelligence Community, as well as other parts of the national security community. Students can complete the program with 15 courses.

Please note that this entry is for currently enrolled students only. The Certificate in Intelligence is not currently accepting new students.

Admissions Criteria for All Advanced Academic Programs (https://e-catalogue.jhu.edu/arts-sciences/ advanced-academic-programs/ Admission/)

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Program Requirements

Students pursuing the MS in Data Analytics and Policy may obtain a combined credential by completing a sequence of courses offered by the Certificate in Intelligence. This combined credential requires students to complete 15 courses (compared to the 17 required to complete both degrees separately). Students are required to take the following courses:

- Five required Data Analytics and Policy core courses
- Five Data Analytics and Policy elective courses
- Five customizable courses for the Certificate in Intelligence

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Data Analytics and Policy Core Courses

The five required core courses provide the foundations for conducting and presenting the results of quantitative data analysis.

Code	Title	Credits
Core Courses - Required		**15**
AS.470.681	Probability and Statistics,Introduction to Data Analytics and Policy	
AS.470.768	Programming and Data Management	
AS.470.709	Quantitative Methods,Quantitative Methods for Policy and Political Analysis	
AS.470.673	Data Visualization	
AS.470.862	Capstone for Data Analytics and Policy	

Data Analytics and Policy Elective Courses

Students will complete five elective courses for the MS in Data Analytics and Policy.

There are four concentrations offered through the MS in Data Analytics and Policy. Pursuing a concentration is optional. To earn a concentration, four of the student's electives must be in the concentration area.

All courses from the concentrations on this page may count as one of the five elective courses, unless specifically noted otherwise.

Concentration in Statistical Analysis

Code	Title	Credits
AS.470.624	Healthcare Analytics and Policy	3
AS.470.643	Text as Data	3
AS.470.667	Machine Learning Methods and Applications	3
AS.470.669	Math for Data Scientists	3
AS.470.694		3
AS.470.699		3
AS.470.708	Unleashing Open Data with Python	3
AS.470.703	Urban Data Analytics	3
AS.470.743	Data Mining and Predictive Analytics	3
AS.470.758	Data-Driven Campaigns and Elections	3
AS.470.763	Database Management Systems	3
AS.470.764	Survey Methodology	3
AS.470.769	Data Science for Public Policy	3
AS.470.779		3
AS.420.677	Spatial Statistics (Not available as a general elective outside of the concentration)	3

Concentration in Public Management

Code	Title	Credits
AS.470.605	Global Political Economy	3
AS.470.608	Public Policy Evaluation & the Policy Process	3
AS.470.627	Financial Management & Analysis in the Public Sector	3
AS.470.631	Economics for Public Decision-Making	3
AS.470.645	The Budgetary Process	3
AS.470.662	Expertise and Evidence in Policymaking	3
AS.470.671	Risk Management Analytics	3
AS.470.694		3
AS.470.731	Privacy in a Data-driven Society	3
AS.470.763	Database Management Systems	3
AS.470.798	Financial Management and Analysis in Nonprofits	3

Concentration in political Behavior and Policy Analysis

Code	Title	Credits
AS.470.608	Public Policy Evaluation & the Policy Process	3
AS.470.620	Race, Politics, and Policy	3
AS.470.624	Healthcare Analytics and Policy	3
AS.470.641	Introduction to Advocacy and Lobbying	3

AS.470.662	Expertise and Evidence in Policymaking	3
AS.470.688	Political Institutions and the Policy Process	3
AS.470.699		3
AS.470.703	Urban Data Analytics	3
AS.470.745	Terrorist Financing Analysis and Counterterrorist Finance Techniques	3
AS.470.758	Data-Driven Campaigns and Elections	3
AS.470.769	Data Science for Public Policy	3
AS.470.779		3
AS.470.835	DC Lab: Politics, Policy, and Analytics	3
AS.473.602	Intelligence Analysis	3
AS.473.663	The Intelligence-Policy Nexus	3

Concentration in Geospatial Analysis

Code	Title	Credits
AS.430.600	Web GIS	3
AS.430.601	Geographic Information Systems (GIS)	3
AS.430.604	Spatial Analytics	4
AS.430.606	Programming in GIS	4
AS.430.602	Remote Sensing: Systems and Applications (Not available as a general elective outside of the concentration)	3
AS.430.607	Spatial Databases and Data Interoperability (Not available as a general elective outside of the concentration)	3
AS.430.609	Spatial Data Management: Quality and Control (Not available as a general elective outside of the concentration)	3
AS.430.610	GIS for Infrastructure Management (Not available as a general elective outside of the concentration)	3
AS.430.612	Cartographic Design and Visualization (Not available as a general elective outside of the concentration)	3
AS.430.613	(Not available as a general elective outside of the concentration)	3
AS.430.615	Big Data Analytics: Tools and Techniques (Not available as a general elective outside of the concentration)	3
AS.430.617	Census Data Mining: Visualization and Analytics (Not available as a general elective outside of the concentration)	3
AS.430.618	(Not available as a general elective outside of the concentration)	3
AS.430.619	Web Application Development (Not available as a general elective outside of the concentration)	3
AS.430.621	GIS for Emergency Management (Not available as a general elective outside of the concentration)	3
AS.430.625	(Not available as a general elective outside of the concentration)	3
AS.430.627	Artificial Intelligence and Machine Learning in Geospatial Technology (Not available as a general elective outside of the concentration)	3
AS.430.629	Drones in Geospatial Decision Making (Not available as a general elective outside of the concentration)	3

AS.430.631	Spatial Algorithms and Data Structures (Not available as a general elective outside of the concentration)	3
AS.430.633	(Not available as a general elective outside of the concentration)	3
AS.430.635	Urban Analytics (Not available as a general elective outside of the concentration)	3
AS.472.611	Analyzing Social Media and Geospatial Information	3
AS.472.612	Geospatial Analysis: Communicating with Multiple Audiences	3

Certificate in Intelligence Requirements

Students will complete five courses for the Intelligence Certificate, as indicated below.

Code	Title	Credits
Core Course - Required		**3**
AS.473.600	The Art & Practice of Intelligence	
Select one Theory and Context course:		*3*
AS.473.604	Applied Critical Thinking and Analysis	
AS.473.605	Strategic Culture Analysis	
AS.473.609	Introduction to Intelligence in the Five Eyes Community	
AS.473.663	The Intelligence-Policy Nexus	
Select one Law and Ethics course:		*3*
AS.470.731	Privacy in a Data-driven Society	
AS.470.795	The Constitution and National Security	
AS.473.606	Legal Issues in Intelligence	
AS.473.607	Intelligence Ethics	
Select one Intelligence Operations course:		*3*
AS.470.740	Cyber Strategy and Threat Analysis	
AS.472.600	Introduction to Geospatial Intelligence	
AS.472.611	Analyzing Social Media and Geospatial Information	
AS.473.602	Intelligence Analysis	
AS.473.644	Technical Collection of Intelligence	
Select one Intelligence Applications course:		*3*
AS.473.608	Leading Intelligence Organizations	
AS.470.668	The Politics and Process of American Foreign Policy	
AS.470.745	Terrorist Financing Analysis and Counterterrorist Finance Techniques	
AS.473.668	Intelligence to Secure the Homeland and Hometown	
Total Credits		*15*