

POLITICAL ECONOMY WITH DATA ANALYTICS, MA

Overview

The Master of Arts in Political Economy with a Data Analytics Emphasis is a three-semester interdisciplinary program. The major goal of the program curriculum is to train public policy specialists using advanced technologies and data analytics. This program is available for Tulane undergraduate students as well as external candidates.

A 4+1 option is available for Tulane undergraduate students.

Requirements

A minimum of thirty- (30) credit hours of coursework with a cumulative GPA ≥ 3.0 . The 30 hours include 9 hours of core courses, 21 hours of graduate Data Analytics Electives.

Course ID	Title	Credits
Core Courses		
PECN 6100	Empirical Approaches to Political Economy	3
PECN 6200	Advanced MA Seminar for Political Economy	3
PECN 6970	Mathematics for Data Analysis	3
Methods-Based Electives (select five from the list)		15
BIMI 6100	Elements in Biomedical Informatics	
BIMI 6200	Introduction to Data Science for Biomedical Informatics	
BIMI 7100	Statistical Machine and Deep Learning in Biomedical Practice	
BIOS 6220	Database Management	
BIOS 6290	Data Management and Statistical Computing	
BIOS 6300	Introduction To ArcGIS	
BIOS 6800	Public Health GIS II	
CCCC 7200	Research Design	
CMPS 6100	Introduction to Computer Science	
CMPS 6160	Introduction to Data Science	
CMPS 6240	Intro to Machine Learning	
CMPS 6340	Introduction to Deep Learning	
CMPS 6360	Data Visualization	
CMPS 6730	Natural Language Processing	
ECON 6230	Econometrics	
EENS 6150	Intro to GIS	
EENS 6030	Advanced GIS	
EENS 6180	Intro Remote Sensing	
EENS 6380	Remote Sensing for Env Anlys	
EENS 6390	Geospatial and Numerical Methods	
MATH 6020	Mathematical Statistics	
MATH 6040	Linear Models	
MATH 6080	Intro to Statistical Inference	
MATH 6310	Scientific Computing I	
MATH 6370	Time Series Analysis	
MATH 7310	Applied Mathematics I	
MATH 7360	Data Analysis	
MGSC 7310	Modeling and Analytics	
MGSC 7340	Web Analytics	
MGSC 7520	Advanced Modeling and Analytics	
POLS 7112	Quantitative Methods I	
POLS 7112	Quantitative Methods I	

POLS 7114	Qualitative Methods	
Additional Electives may be approved by the Program Director		
Two Topics-Based Electives from the Following		6
ECON 6680	Economics of Poverty	
ECON 6300	Regulation	
ECON 6330	Intl Trading Relations	
ECON 6500	Health Econ & Policy	
ECON 6520	Econ Public Expenditures	
ECON 6530	Economics of Taxation	
ECON 6540	Public Finance & Public Policy	
ECON 6560	Comparative Economic Systems	
ECON 6580	Labor & Pop In L.A.	
ECON 6590	Econ Devel of Latin America	
ECON 6600	Inequality and Poverty in Latin America	
ECON 6650	Labor & Population in Lat Amer	
ECON 6660	Seminar On Latin American Countries	
ECON 6710	Economics of Education Policy and Reform	
PHIL 6510	Theories of Economic Justice	
POLS 7116	Dissertation Prospectus Seminar	
SOCI 6130	Race, Crime and Control	
Additional Electives may be approved by the Program Director		
Total Credit Hours		30

Three Semester Sample Schedule:

The following is a representative schedule for completing the degree within three semesters. While the program is designed for a three-semester timeline, there is flexibility in course selection and credit hour distribution each term. Additionally, students may opt for a fourth semester if necessary to accommodate their academic or professional goals.

Year 1		
Fall		Credit Hours
PECN 6100	Empirical Approaches to Political Economy	3
PECN 6970	Mathematics for Data Analysis	3
Methods-Based Electives		3
Credit Hours		9
Spring		
Methods-Based Electives		12
Credit Hours		12
Year 2		
Fall		
PECN 6200	Advanced MA Seminar for Political Economy	3
Topics-Based Electives		6
Credit Hours		9
Total Credit Hours		30

4+1 Program

The 4+1 program offers a streamlined path to earning an MA in Political Economy with Data Analytics and is open to Tulane undergraduate students of all academic backgrounds. While all students must meet the program prerequisites before beginning the +1 portion of their studies, the program is designed to accommodate those with or without prior coursework in related fields. Students must apply through the School of Liberal Art's Graduate Admissions Office (<https://liberalarts.tulane.edu/academics/graduate-studies/prospective-students>) and be accepted into the program before taking any graduate-level classes.

4+1 Sample Schedule

The following gives a sample schedule for 4+1 students to graduate within a year of their undergraduate graduation. Undergraduate students are permitted to apply up to six credits toward both their undergraduate and graduate degrees. Remaining graduate coursework completed during the fourth year of undergraduate study, typically up to 6 additional credit hours, applies only to the graduate degree.

Year 1		
Fall		Credit Hours
Fourth year (undergraduate)		
PECN 6100	Empirical Approaches to Political Economy (graduate credit only)	3
PECN 6970	Mathematics for Data Analysis (graduate credit only)	3
Credit Hours		6
Spring		
Fourth year (undergraduate)		
Methods-Based Electives (Graduate & Undergraduate Credit)		6
Credit Hours		6
Year 2		
Fall		
PECN 6200	Advanced MA Seminar for Political Economy	3
Methods-Based Electives		6
Credit Hours		9
Spring		
Methods-Based Electives		3
Topics-Based Electives		6
Credit Hours		9
Total Credit Hours		30

Program String and Field of Study: LAMA_GR, PED A

Catalog addenda note: Minor edits were made to this program on 7/18/2025.

Contact

For more information, contact the School of Liberal Arts (<https://murphy.tulane.edu/contact/>).