B.A. IN DATA ANALYTICS

Program Director and Faculty Advisor. Dr. Kevin Egan, Economics

The analysis of big data requires people trained in the social sciences who can effectively develop and utilize the data that they are able to access. Analysts need to understand how people think and behave, and interpret data in relation to that human element.

Given this, the Judith Herb College of Arts, Social Sciences and Education is able to provide a unique undergraduate program in data analytics through our social science curriculum and faculty strengths. In this major, you will develop the quantitative and methodological skills to employ analytical techniques, work with big data sets, and make sense of analytical results within the framework of social and cognitive behaviors and population trends.

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Code	Title He	ours		
DANN 2000	Proseminar in Data Analytics I	1		
DANN 4000	Proseminar in Data Analytics II	2		
Choose one of the following: 3				
PSY 2100	Statistical Methods			
SOC 3290	Social Statistics			
GEPL 4420	Quantitative Methods in Geographic Research			
Choose one of the following: 3				
PSY 3110	Research Methods In Psychology			
PSC 3150	Research and Writing in Political Science			
SOC 3270	Social Research Methods			
Following six cou	rse are required			
ECON 2810	Introduction to Econometrics	3		
ECON 3810	Applied Econometrics	3		
or ECON 3300	BENEFIT-COST ANALYSIS			
GEPL 4110	Geographic Information Systems	3		
CSET 1100	Introduction to Computer Science and Engineering Technology	4		
CSET 3300	Database-Driven Web Sites	4		
ART 2800	Visual Literacy-Data Visualization	3		
Choose one of the following 3				
PSC 3250	Public Opinion			
PSY 3750	Science and Pseudoscience			
Choose one of the following				
PHIL 3140	Computers And Culture			
PHIL 3160	Data Science Ethics			

This major calls for specific courses to be taken to fulfill the 18 credit related category. Within that category for DAAN majors, an area of concentration is required in one of the following subjects: Economics, Geography and Planning, Political Science and Public Administration, Psychology, Sociology or Anthropology. Alternatively, this requirement can also be satisfied through earning a minor in an approved social science. Consult with the program advisor when selecting courses to fulfill this requirement.

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First Term		Hours	
AR 1000	First Year Orientation	1	
MATH 1180	Reasoning With Mathematics	3	
ENGL 1110	College Composition I	3	
CSET 1100	Introduction to Computer Science and Engineering Technology	4	
Arts/Humanities (• •	3	
Social Sciences C		3	
Social Sciences C		17	
Second Term	Hours	17	
ENGL 1130	College Composition II: Academic Disciplines And Discourse	3	
DANN 2000	Proseminar in Data Analytics I	1	
Natural Sciences	•	3	
Social Sciences C	ore	3	
Diversity of US		3	
Social Sciences C	ore (History)	3	
	Hours	16	
Third Term			
PSY 2100	Statistical Methods	3	
ART 2800	Visual Literacy-Data Visualization	3	
ENGL 2710	Reading Fiction	3	
Elementary Foreig	•	4	
Non#US Diversity		3	
	Hours	16	
Fourth Term			
ECON 2810	Introduction to Econometrics	3	
CSET 3300	Database-Driven Web Sites	4	
PSY 3110	Research Methods In Psychology	4	
Elementary Foreig	ın Language II	4	
	Hours	15	
Fifth Term			
GEPL 4110	Geographic Information Systems	3	
ECON 3810 or ECON 3300	Applied Econometrics or BENEFIT-COST ANALYSIS	3	
PSC 3250	Public Opinion	3	
	ign Language I or approved culture course	3	
	ation Elective or minor course	3	
	Hours	15	
Sixth Term			
PHIL 3160	Data Science Ethics	3	
Intermediate Fore	ign Language II or approved culture course	3	
Related Concentration Elective or minor course			
Arts/Humanities Core (Fine Art)			
	Hours	15	
Seventh Term			
Related Concentration Elective or minor course 6			
Electives		6	
	Hours	12	



B.A. in Data Analytics

Eighth Term

Total Hours		120
	Hours	14
Electives		5
Related Concentration Elective or minor course		3
Natural Scienc	4	
DANN 4000	Proseminar in Data Analytics II	2

- PLO 1. Students will learn and apply skills in multivariate statistical analysis to social science data.
- PLO 2. Students will construct databases and learn to manipulate them with various techniques to use the data to answer their quantitative question of interest.
- PLO 3. Students will describe and evaluate various social and ethical issues related to the use of data analytics.
- PLO 4. Students will summarize and assess the importance of social context in analyzing social data.
- PLO 5. Students will recognize the strengths and limitations of quantitative analysis of social phenomenon.
- PLO 6. Students will effectively communicate the importance of their data analysis through written work and/or oral presentations.

