

Name: _____ Analytical Mod # _____ Disciplinary Elective. _____			
<i>Degree Plan: Master of Science in Social Data Analytics and Research (36 credits)</i>			
<i>To graduate you must maintain 3.0 (B) GPA in required core courses and in all program courses.</i>			
I. Required Core Courses (15 hours) <i>Complete <u>all</u> courses as soon as possible.</i>	<i>Prerequisites</i>	Semester	Grade
EPPS 6302 Methods of Data Collection and Production			
EPPS 6311 Research Practice in the Social Sciences			
PPPE 6310 Research Design I			
EPPS 6313 Introduction to Quantitative Methods	<i>college algebra</i>		
OR EPPS 7313 Descriptive and Inferential Statistics	<i>calculus</i>		
EPPS 6316 Applied Regression	<i>college algebra</i>		
OR EPPS 7316 Regression and Multivariate Analysis	<i>calculus</i>		
II Prescribed Analytical Electives (12 hours) Complete 12 hours in <u>ONE</u> of following analytical modules	<i>Prerequisites</i>	Semester	Grade
Module 1: Data Collection, Production and Management			
EPPS 6323 Knowledge Mining			
EPPS 6324 Data Management for Social Science Research			
EPPS 6354 Information Management			
EPPS 7386 Survey Research	<i>EPPS 6313 Intro. to Quant. Methods</i>		
GISC 5322 GPS Satellite Surveying Techniques			
GISC 5324 3D Data Capture and Ground LiDAR			
GISC 6325 Remote Sensing Fundamentals			
GISC 6381 GIS Fundamentals			
GISC 6384 Advanced Geographic Information Systems	<i>GISC 6381 GIS Fundamentals</i>		
GISC 7365 Advanced Remote Sensing	<i>GISC 6325 Remote Sensing Fundam.</i>		
PSCI 6364 Public Opinion and Survey Research			
Module 2: Quantitative Methods			
ECON 6305 Mathematical Economics			
ECON 6306 Applied Econometrics			
ECON 6309 Econometrics I			
ECON 7309 Econometrics II	<i>ECON 6309 Econometrics</i>		
ECON 7315 Econometrics III	<i>ECON 6309 Econometrics AND</i>		
EPPS 7318 Structural Equation & Multilevel/Hierarch. Modeling	<i>ECON 6306 Applied Econometrics OR ECON 6309 Econometrics I OR EPPS 6316 Applied Regression OR Instructor consent. Recommended: EPPS 7316 Regression & Multiv. Anal.</i>		
EPPS 6356 Data Visualization			
EPPS 7344 Categorical and Limited Dependent Variables	<i>EPPS 6316 Applied Regression</i>		
EPPS 7370 Time Series Analysis I	<i>EPPS 7316 Regression & Multiv. Anal.</i>		
EPPS 7371 Time Series Analysis II	<i>EPPS 7370 Time Series Analysis I</i>		
EPPS 7390 Bayesian Analysis for Social & Behavioral Analysis	<i>EPPS 7316 Regression & Multiv. Anal.</i>		
Module 3: Qualitative Methods			
CRIM 7342 Qualitative Criminology			
EPPS 6346 Qualitative Research Methods			
EPPS 6355 Qualitative Data Analysis			
EPPS 6356 Data Visualization			

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<i>II Prescribed Analytical Electives... cont'd</i>	<i>Prerequisites</i>	Semester	Grade
Module 4: Design and Evaluation			
CRIM 6301 Research Design I			
EPPS 6352 Evaluation Research Methods in the Social Sciences			
EPPS 7304 Cost-Benefit Analysis			
GISC 7387 GIS Research Design	<i>Instructor permission</i>		
PA 6315 Evaluating Program and Organizational Performance			
PA 7330 Research Design in Public Affairs	<i>EPPS 6313 Intro. to Quant. Methods OR EPPS 7313 Descrip & Infer. Stats.</i>		
PPPE 6342 Research Design II			
Module 5: Spatial Analytics			
GISC 6301 GIS Data Analysis Fundamentals			
GISC 6311 Statistics for Geospatial Science			
GISC 6317 GIS Programming Fundamentals			
GISC 6381 GIS Fundamentals			
GISC 6384 Advanced Geographic Information Systems			
GISC 7310 Advanced GIS Data Analysis	<i>GISC 6301 GIS Data Anal. Fundam.</i>		
GISC 7360 GIS Pattern Analysis	<i>GISC 6301 GIS Data Anal. Fundam. AND GISC 6381 GIS Fundamentals</i>		
GISC 7361 Spatial Statistics	<i>GISC 7360 GIS Pattern Analysis AND EPPS 7316 Regression & Multiv Anal. OR GISC 7310 Advanced GIS Data Anal.</i>		
III Prescribed Disciplinary Electives (9 hours)			
Complete 9 hours in <u>ONE</u> of following analytical modules			
Criminology:			
CRIM 6303 Etiology of Crime & Criminality			
CRIM 6311 Crime & Justice Policy			
CRIM 6314 Policing			
CRIM 6315 Violent Crime			
Geospatial Information Sciences:			
CRIM 6332/GISC 6331 GIS Applications in Criminology			
GISC 6325 Remote Sensing Fundamentals			
GISC 6382 Applied Geographic Information Systems			
GISC 6385 GIS Theories, Models and Issues			
GISC 7364 Demographic & Epidemiological Anal. & Modeling			
GISC 7366 Applied Remote Sensing	<i>GISC 6325 Remote Sensing Fundam.</i>		
Economics:			
ECON 5321 Microeconomic Theory for Applications			
ECON 5322 Macroeconomic Theory for Applications			
ECON 5326 Special Topics in Economics			
ECON 5397 Managerial Economics			
ECON 6320 Game Theory for the Social Sciences			
ECON 6344 Transfer Pricing			
Political Science:			
PSCI 6311 Proseminar in Law and Courts			
PSCI 6319 Proseminar in International Relations Proseminar			
PSCI 6321 Proseminar in Comparative Politics			
PSCI 6347 Proseminar in Pol. Institutions & American Politics			

