	Data Types								Methods								Substantive Areas								Programming Languages					
Course	Numerical	Categorical	Networks	Text	Speech	Maps	Images	Videos	Network analysis	Descriptive statistics	Frequentist inference	Bayesian inference	Machine learning	Data management	Visualization	Human subjects	Discrimination/Inequality	Environment/Sustainability	Ethics/Privacy	Health/Medicine	Science/Reproducibility	Security/Defense	Space/Quantum	Web/Social Media	R	Python	Unix	Git	SQL	Other
INFO 514 Computational Social Science	X	X	X	X					X	X	X		X	X	X		X		X		X			X		X	X			
PA 572 Digital Research in Politics and Policy	X	X	X			X	X		X	X	X		X		X	X	X	X	X	X		X		X	X	X	X			
INFO 510 Bayesian Modeling and Inference	x	x								x		x	x		x						x					x				x
INFO 516 Introduction to Human Computer Interaction	x	x								x				x	x															
INFO 521 Introduction to Machine Learning	x	x				x				x	x	x	x																	
INFO 523 Data Mining and Discovery	x	x		x						x			x	x	x															
INFO 529 Applied Cyberinfrastructure Concepts	x						x											x			x				x	x	x		x	x
INFO 550 Artificial Intelligence	x	x	x			x						x																		
INFO 555 Applied Natural Language Processing				X						X			X													X				
INFO 557 Neural Networks	X	X		X			X						X													X		X		
INFO 575 User Interface and Website Design																														
SOC 511 Formal Models for Cultural Analysis		X		X						X					X															
SOC 526 Methods for Social Network Analysis			X						X	X					X															
SOC 527 Social Networks	X		X			X			X	X							X			X										
SOC 552 Advanced Topics in Stratification																														
SOC 561 Programming for the Social Sciences	X	X	X	X										X																
SOC 596a Advanced Topics in Research: BD Big Data Techniques for Social Scientists																														
SOC 596a Advanced Topics in Research: RM Advanced Topics in Research Methodology	x									x	x																			
LING 508 Computational techniques for linguists	x	x		x	x									x												x	x	x	x	
LING 529 Human Language Technology I	x	x		x						x	x	x	x	x												x	x	x		
LING 531 Human Language Technology II	x	x		x						x	x	x	x	x												x	x			
LING 538 Computational linguistics	x	x		x	x					x			x	x												x				x
LING 539 Statistical natural language processing	x	x		x						x	x	x	x	x												x	x	x		
LING 578 Speech technology	x	x		x	x					x			x	x																
LING 581 Advanced computational linguistics	x	x		x	x					x			x	x																
LING 583 Text retrieval and web search	x	x	x	x						x		x	x	x	x															
LING 696b Seminar in phonology: "Neural nets and machine learning in phonology and morphology"																														
LING 696g Topics in computational linguistics																														
COMM 640 Research Methodologies III	X	X								X	X			X											x					
COMM 696R Advanced Communication Research Methods (Structural equation modelling)	X	X								X	X			X											x					
COMM 696R Advanced Communication Research Methods (Data Management in R)	X	X		X						X	X			X	X										x					
ANTH 595D Special Topics in Biological Anthropology: R programming for data analysis and visualization																														
POL 610 Theory and methods for the Analysis of Political Networks			X						X	X				X	X			X	X			X		X	X					X
POL 684 Causal Inference																														
POL 688 Digital Traces in Political and Social Research	X	X	X	X					X	X			X	X	X						X			X	X		X	X		
ENGL/SLAT 596o: Corpus Linguistics																														
GEOG 557: Statistical Techniques in Geography, Regional Development and Planning																														
GIST 601B: Remote Sensing Science																														