APPLIED DATA SCIENCE, MINOR

Program Requirements

Code	Title	Hours
Required Courses		
Choose from one of the following:		3-4
STA 270	Applied Statistics	
STA 260	Business Statistics	
STA 215	Introduction to Statistical Reasoning	
STA 340	Applied Regression Analysis	3
DSC 580	R and Introductory Data Mining	3
or STA 580	R and Introductory Data Mining	
Choose from one of the following:		3
CSC 174	Introduction to Programming for Science & Engineering	
CSC 170	Intro to Game Programming	
CSC 189	Computing Concepts and Programming	
CSC 190	Object- Oriented Programming I	
Data Science Electives		
Choose two courses from one of the following categories:		6-8
Accounting:		
BUS 209	Fundamentals of Financial and Managerial Accounting	
or ACC 200	Survey of Accounting	
ACC 350	Accounting Information Systems and Analytics	
Agriculture:		
AGR 374	Genetics of Livestock Improvement	
AGR 501	Independent Study in Agriculture:___	
or AGR 509	Agriculture Research Methods and Interpretation	
Anthropology and Sociology:		
ANT 371	Primate Ecology & Sociality	
SOC 232	Social Statistics	
SOC 310	Population and Society	
SOC 395	Research Methods in Sociology	
Biology and Environmental Health Sciences:		
EHS 280 & EHS 370	One Health: Global Environmental Public Health and Environmental Disease Detectives: Epidemiology	
BIO 315 & BIO 533	Genetics and Bioinformatics: Principles and Applications	
BIO 316 & BIO 532	Ecology and Conservation Biology	
Management Information Systems:		
MIS 335	Database Management	
MIS 430	Business Data Mining	
Computer Science and Informatics:		
CSC 310	Data Structures	
CSC 313	Database Systems	
CSC 581	Machine Learning	
INF 314	MS Office & Data Analysis	
Finance:		
FIN 201	Personal Money Management	
FIN 304	Financial Institutions	
or FIN 311	Personal Financial Planning	
or FIN 324	Principles of Investments	
Global Supply Chain Management:		
BUS 306	Essentials of Supply Chain Mgt	
MGT 442	Supply Chain Planning	
or MGT 444	Strategic Sourcing	
Government:		
POL 280	Research and Writing in Political Science	
POL 400	Capstone Course in Political Science	
POL 440	Public Opinion & Voting Behavior	
Geosciences:		
GEO 351	Geoscience Data and Techniques	
GEO 353	Geographic Information Systems	
GEO 453	Advanced GIS	
GEO 456	Remote Sensing	
GEO 458	Advanced Geographic Imagery	
Marketing:		
MKT 301	Principles of Marketing (NB)	
MKT 455	Marketing Research and Analysis	
or MKT 457	Experimental Design for Marketing	
Physics:		
PHY 315	Electrical Circuits	
PHY 406	Advanced Physics Laboratory	
PHY 460	Classical Mechanics	
Psychology:		
PSY 240	Scientific Literacy in Psychology	
PSY 315	Sensation and Perception	
PSY 340	Research Literacy in Psychology	
PSY 590	Tests and Measurements	
Risk Management and Insurance:		
RMI 378	Risk Management	
RMI 380		
Advisor-Approved:		
Two advisor-approved courses from a department other than the Department of Mathematics and Statistics		
Total Hours		**18-21**