MINOR: DATA ANALYTICS

Student Learning Outcomes

Students graduating from this program will:

- Read and write logical arguments using mathematical symbols
- Build, validate and analyze basic data-based models
- Communicate analytical results effectively

Math majors can have up to 6 hours of overlap with the Data Analytics Minor.

Code	Title	Credits
Statistics - Take one of the following courses:		**3**
STAT 235	Elementary Statistics	
DSOM 211	Business Analytics I	
CJC 303/SOCIOL 363	Introduction to Statistics in Sociology and Criminal Justice	
PSYCH 316	Quantitative Methods In Psychology	
CIV-ENGR 319	Engineering Computation and Statistics	
Introductory Programming & Data Analytics - Take one of the following courses:		**3**
STAT 400	Machine Learning and Statistical Modeling	
STAT 451	Applied Statistical Analysis	
Analytical Reasoning & Intermediate Data Analytics I - Take all the following courses:		**6**
MATH 301	On Solid Ground: Sets and Proof	
or COMP-SCI 191	Discrete Structures I	
MATH 314	Graph Theory with Applications	
Intermediate Data Analytics II - Take two of the following courses:		**6**
MATH 401	Data-Driven Modeling	
GEOG 444	Spatial Data Analysis	
DSOM 311	Business Analytics II	
DSOM 458	Data Visualization	
MKT 390	Customer Data Analytics	
ECON 425	Econometrics	
STAT 436	Introduction To Mathematical Statistics I	
or COMP-SCI 394R	Applied Probability	
STAT 441	Introduction To Mathematical Statistics II	
STAT 496	Internship/Practical Training in Mathematics or Statistics	
UPD 300	Quantitative Planning Methods And Techniques	
Total Credits		**18**