ANALYTICS MAJOR

Bachelor of Science in Analytics

The Analytics B.S. degree will allow graduates to pursue careers in a variety of fields requiring data analysis skills and work in companies and not-for-profit organizations, government agencies, research institutions, education and health care organizations. Graduates may also continue graduate education in Analytics and other related fields.

The major requires completion of 12 four-credit courses (48 credits) in which students develop knowledge and skills for conceptual understanding of real-world problems and data reflecting them; data organization and modelling; data analysis and applications; presentation and communication of analyses.

To further develop understanding of conceptual problems faced by organizations, the major requires that students complete a disciplinary minor (or second major).

Total Credit Hours required for B.S. degree in analytics is 48 credits.

Code	Title	Credits
Ethical principles		**4**
PHIL 241	Ethics In a Digital World	
Conceptual data understanding		**8**
ECON 222	Microeconomic Principles: Public Policy	
ECON 311	Data Collection & Analysis	
Data organization		**12**
CTIS 210	Introduction to Computer Programming	
CTIS 342	Database Systems	
or CTIS 331	Information Design	
CTIS 243	Management Information Systems (BUS 243)	
or GEOL 215	Data Wrangling	
Data modeling		**8**
MATH 112	Elementary Statistics	
ECON 312	Econometrics	
Analysis/applications		**8**
MATH 241	Scientific Computing	
ECON 328	Analytics for Business and Government (ACCT 328 or MATH 328)	
Elective (select 1 course)		**4**
MATH 220	Calculus I	
MATH 222	Calculus II	
MATH 310	Probability and Statistics	
CTIS 310	Advanced Computer Programming	
another course from listed above not used to satisfy the major requirements		
Capstone project		**4**
The project can be carried out independent of or within a 400-level course:		
MYCQ contribute course		
Independent study		
Total Credits		**48**