DATA ANALYTICS MINOR

A minor in Data Analytics is offered to those who wish to complement study in another discipline. This minor allows students to have the skills to work in cross disciplinary teams to solve challenging scientific problems.

Specializations are available in the following:

- Biology: Environmental Science
- Biology: Genetics
- Business
- Chemistry
- Finance
- Physics
- Psychology
- Sports Science

This minor is not available to students who earn a major in Information Systems.

Code	Title	Units
Lower-Division Requirements		
CSC 1043 and CSC 1043L	Introduction to Computer Programming and Introduction to Computer Programming Lab	3
Choose one (1) sequence from the following:		3-4
MTH 1044	Calculus with Applications (GE)	
MTH 1064 and MTH 1064L	Calculus I (GE) and Calculus I Lab (GE)	
MTH 1073	Business Calculus (GE)	
Choose one (1) course from the following:		3
MTH 2003	Introduction to Statistics	
MTH 3063	Calculus Based Statistics with R	
MTH 3083	Mathematical Probability and Statistics	
Upper-Division Requirements		
CSC 3003	Python and UNIX	3
or EGR 3003	Python and UNIX	
CSC 3011	Machine Learning and Multivariate Modeling in R	1
or CSC 3031	Data Visualization and Communication with R	
CSC 3022	Data Management for Data Analytics	2-4
or ISS 4014	Data Base Systems and Web Integration	
Choose one (1) sequence from the following:		3
CSC 4133	Service Learning in Computer Science	
HON 4098 and HON 4099	Honors Project I and Honors Project II	
KIN 4084	Practicum in Kinesiology	
MTH 4142 and MTH 4151	Data Science Project I and Data Science Project II	
MTH 4133	Service Learning in Mathematics	
MTH 4162 and MTH 4171	Project for Data Analytics Minors I and Project for Data Analytics Minors II	
Specialization Courses		
Choose one (1) of the following areas of specialization:		8-16
Biology: Environmental Science		
BIO 2011 and BIO 2011L	Ecological and Evolutionary Systems (GE) and Ecological and Evolutionary Systems Lab (GE)	
BIO 3063 and BIO 3063L	Conservation Ecology and Conservation Ecology Lab	
Biology: Genetics		
BIO 2010 and BIO 2010L	Cell Biology and Biochemistry (GE) and Cell Biology and Biochemistry Lab (GE)	
BIO 3045 and BIO 3045L	Genetics and Genetics Lab	
Business		
MGT 2012	Principles of Management	
MKT 2032	Principles of Marketing	
Choose one (1) course from the following:		
BUS 4080	International Business	
MGT 3020	Organizational Behavior	
MGT 4012	Leadership Theory and Practice	
Chemistry		
CHE 1052 and CHE 1052L	General Chemistry I (GE) and General Chemistry I Lab (GE)	
CHE 1053 and CHE 1053L	General Chemistry II and General Chemistry II Lab	
CHE 2013 and CHE 2013L	Analytical Chemistry and Analytical Chemistry Lab	
CHE 3025 and CHE 3025L	Chemical Thermodynamics and Kinetics and Chemical Thermodynamics and Kinetics Lab	
Finance		
ACC 2001	Principles of Financial Accounting	
ACC 2002	Principles of Managerial Accounting	
FIN 3035	Business Finance	
Physics		
PHY 2044 and PHY 2044L	University Physics I (GE) and University Physics I Lab (GE)	
PHY 2054 and PHY 2054L	University Physics II and University Physics II Lab	
PHY 3003 and PHY 3003L	Modern Physics and Modern Physics Lab	
Psychology		
PSY 1003	General Psychology (GE)	
PSY 3020	Social Psychology	
PSY 4009	Psychology of Cognition and Learning	
Sports Science		
KIN 2080	Care and Prevention of Athletic Injuries	
Choose six (6) units from the following:		
KIN 2050	Medical Terminology	
KIN 2080L	Care and Prevention of Athletic Injuries Lab	
KIN 3027	Applied Biomechanics [1]	
KIN 3027L	Biomechanics Lab	

KIN 3070	Praxis of Strength Training and Conditioning	
Total Units		**26-37**

[1] Prerequisite KIN 3025 waived with KIN 2080.