

DATA ANALYTICS MINOR

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 (FE)	
MTH 1064 and MTH 1064L	Calculus I (FE) and Calculus I Lab (FE)	
MTH 1073	Business Calculus (FE)	
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 or EGR 3003	Python and UNIX Python and UNIX	3
CSC 3011 or CSC 3031	Machine Learning and Multivariate Modeling in R Data Visualization and Communication with R	1
CSC 3022 or ISS 4014	Data Management for Data Analytics Data Base Systems and Web Integration	2-4
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
<i>Biology: Environmental Science</i>		
BIO 2011 and BIO 2011L	Ecological and Evolutionary Systems (FE) and Ecological and Evolutionary Systems Laboratory (FE)	
BIO 3063 and BIO 3063L	Conservation Ecology and Conservation Ecology Laboratory	
<i>Biology: Genetics</i>		
BIO 2010 and BIO 2010L	Cell Biology and Biochemistry (FE) and Cell Biology and Biochemistry Laboratory (FE)	
BIO 3045 and BIO 3045L	Genetics and Genetics Laboratory	
<i>Business</i>		
MGT 2012	Principles of Management	
MKT 3032	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 (FE) and General Chemistry I Lab (FE)
CHE 1053 and CHE 1053L	General Chemistry II and General Chemistry II Lab
CHE 2013	Analytical Chemistry
CHE 3025 and CHE 3025L	Physical Chemistry I and Physical Chemistry I Lab
<i>Finance</i>	
ACC 2001	Principles of Financial Accounting
ACC 2002	Principles of Managerial Accounting
FIN 3035	Business Finance
<i>Physics</i>	
PHY 2044 and PHY 2044L	University Physics I (FE) and University Physics I Lab (FE)
PHY 2054 and PHY 2054L	University Physics II and University Physics II Lab
PHY 3004 and PHY 3004L	Modern Physics and Modern Physics Lab
<i>Psychology</i>	
PSY 1003	General Psychology (FE)
PSY 3020	Social Psychology
PSY 4009	Psychology of Cognition and Learning
<i>Sports Science</i>	
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 Laboratory
KIN 3070	Praxis of Strength Training and Conditioning

Total Units **26-37**

¹ Prerequisite KIN 3025 waived with KIN 2080.