

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

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 (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

Psychology

PSY 1003	General Psychology (FE)
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 Laboratory
KIN 3070	Praxis of Strength Training and Conditioning

Total Units **26-37**

¹ Prerequisite KIN 3025 waived with KIN 2080.