

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 Biomechanics¹

KIN 3027L

Biomechanics Laboratory

KIN 3070

Praxis of Strength Training and Conditioning

Total Units

26-37

¹ Prerequisite KIN 3025 waived with KIN 2080.