## **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 (FE)	
MTH 1064 and MTH 1064L	Calculus I (FE) and Calculus I Lab (FE)	
MTH 1073	Business Calculus (FE)	
Choose one (1) co	ourse 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:		
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		

DIO 2011	Factorized and Funktion and Quetara (FF)	
BIO 2011	Ecological and Evolutionary Systems (FE) and Ecological and Evolutionary Systems	
and bio 2011L	Laboratory (FE)	
BIO 3063	Conservation Ecology	
	and Conservation Ecology Laboratory	
Biology: Genetics		
BIO 2010	Cell Biology and Biochemistry (FE)	
and BIO 2010L	and Cell Biology and Biochemistry Laboratory (FE)	
BIO 3045	Genetics	
and BIO 3045L	and Genetics Laboratory	
Business		
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	General Chemistry I (FE)	
and	and General Chemistry I Lab (FE)	
CHE 1052L		
CHE 1053	General Chemistry II	
and	and General Chemistry II Lab	
CHE 1053L	Amahatinal Ohamiatur	
CHE 2013	Analytical Chemistry	
CHE 3025 and	Physical Chemistry I and Physical Chemistry I Lab	
CHE 3025L	and i flysical offernistry i Lab	
Finance		
ACC 2001	Principles of Financial Accounting	
ACC 2002	Principles of Managerial Accounting	
FIN 3035	Business Finance	
Physics	Buomess i manee	
PHY 2044	University Physics I (FE)	
and	and University Physics I Lab (FE)	
PHY 2044L	, , , , , , , , , , , , , , , , , , ,	
PHY 2054	University Physics II	
and	and University Physics II Lab	
PHY 2054L		
PHY 3004	Modern Physics	
and	and Modern Physics Lab	
PHY 3004L		
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	
	its from the following:	
KIN 2050	Medical Terminology	
KIN 2080L	Care and Prevention of Athletic Injuries Lab	
KIN 3027	Applied Biomechanics <sup>1</sup>	
KIN 3027L	Biomechanics Laboratory	

## 2 Data Analytics Minor

KIN 3070 Praxis of Strength Training and Conditioning

Total Units 26-37

 $<sup>^{1}\,</sup>$  Prerequisite KIN 3025 waived with KIN 2080.