

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) 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	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

Biology: Genetics

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

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 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.