Data Analytics Concentration (9258)

Associate of Applied Business Degree

This program prepares students for entry-level employment in the field of data analytics. Students will gain an understanding, obtain skills, and utilize tools that are necessary for data storage, processing, analysis, visualization, and application. Data analysts are responsible for extracting, categorizing, and analyzing data, in order to identify patterns, behaviors, and trends, as well as utilizing different reporting, modeling, and analytical techniques. In addition to employment opportunities, students have the option to continue their education beyond the two-year associate degree program by enrolling in bachelor degree programs at local universities.

NOTE: *Students planning to transfer to a four-year college are encouraged to take ENGL 1120 English Composition II in addition to the following requirements.*

Course	Title	Credit Hours
First Semester		
BUSM 1300	Introduction to Business	3
ENGL 1110 or ENGL 1111	English Composition I (A) [1] or English Composition I (B)	3
FYEX 1000	First Year Experience	1
ITIS 1007	Principles of Information Technology and Computer Science	3
MATH 1600	Survey of College Mathematics [2]	3
Select course(s) from the Arts and Humanities Electives list		3
	Credit Hours	**16**
Second Semester		
ITCS 1010	Programming Logic 🎓	3
ITIS 1520	Microsoft Office Excel: Skills and Techniques 🎓	3
MATH 1550	Statistics (A)	4
1st 8 weeks		
ITDB 1401	SQL Programming and Database Design 🎓	3
2nd 8 weeks		
ITDB 1405	Oracle PL/SQL Programming 🎓	2
	Credit Hours	**15**
Third Semester		
BUSM 2400	Business Communication	3
ITCS 1880	R Programming I 🎓	3
ITDB 1407	MySQL Database Analysis and Design	2
ITIS 1030	Security Awareness 🎓	1
ITON 1205	Network+ and Networking Essentials 🎓	2
Select course(s) from the Natural Sciences Electives list		3
Select course from one of the Data Analytics Pathway Electives list		3
	Credit Hours	**17**
Fourth Semester		
ITCS 1870	Python Programming I 🎓	3
ITDB 2500	Data Analytics 🎓	3
ITDB 1450	Visualization Tools for Data Analytics 🎓	2
ITIS 2890	Information Technology and Computer Science Capstone 🎓	2
ITON 1748	Linux Administration I 🎓	3
Select courses(s) from the Social and Behavioral Sciences Electives list		3
	Credit Hours	**16**
	Total Credit Hours	**64**

[1] English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

[2] Students planning to transfer to a four-year college should take a sequence of math as advised by their counselor.

☛ This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Data Analytics Pathways

Course	Title	Credit Hours
Electives for Bioscience/Science Analytics Pathway		
BIOL 1030	Environmental Issues and Solutions	3
BIOL 1140	Human Biology	3
BIOL 1170	Ecology and Environmental Biology	4
BIOL 1200	Fundamentals of Biology for the Health Technologies	4
BIOS 1050	Introduction to Biotechnology Science	3
CHEM 1050	Chemistry in the Everyday World	3
OR		
Electives for Business Analytics Pathway		
ACCT 1100	Introduction to Financial Accounting	4
BUSM 1330	Business Ethics	3
BUSM 1500	International Business in a Global Environment	3
BUSM 1700	Principles of E-Business	3
BUSM 1800	Essentials of Management and Supervision	3
FINN 1300	Financial Management for the Small Business	3
OR		
Electives for History/Political Science Pathway		
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 1450	World Civilization I: The Ancient and Medieval World	3
HIST 1550	World Civilization II: The Modern World	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
HIST 2600	Ohio History	3
HIST 2750	Latin American History	3
POLS 1300	U.S. National Government	3

Electives

Course	Title	Credit Hours
Natural Sciences		
CHEM 1050	Chemistry in the Everyday World	3
PSCI 1300	Earth Science	3
PSCI 1400	Introduction to Meteorology	3
Any other Natural Sciences laboratory course included in the Ohio Transfer 36		
Arts and Humanities		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
HUMX 1200	The American Experience in the Arts	3
MUSC 1200	Music Appreciation	3

MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3
Social and Behavioral Sciences		
ANTH 1160	Introduction to Cultural Anthropology	3
ECON 1150	Basic Economics	3
ECON 2500	Principles of Macroeconomics	3
ECON 2600	Principles of Microeconomics	3
GEOG 1500	Introduction to Geography	3
GEOG 1600	World Regional Geography	3
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
POLS 1300	U.S. National Government	3
POLS 2500	Modern Political Ideologies	3
PSYC 1500	Introduction to Psychology	3
SOCY 1150	Principles of Sociology	3