DATA-DRIVEN BUSINESS (M.S. IN DATA SCIENCE AND BUSINESS ANALYTICS)

Analytics is a fast-growing STEM field with a high demand for individuals who possess the skills and expertise necessary to navigate the process of transforming data into insight for making sound business decisions. It's the reason that the WSU James and Patricia Anderson College of Engineering and the Mike Ilitch School of Business launched an innovative and interdisciplinary new master's program in data science and business analytics. Leaders in this field use data to fundamentally rethink all facets of business in many sectors, including manufacturing, supply chain, finance, and healthcare.

Admission Requirements

Admission to any graduate program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/). Applicants should have 3.0 or higher cumulative undergraduate g.p.a.

Prerequisite Knowledge

Candidates are expected to well-versed in basic probability and statistics and also familiar with some programming language. Courses will be available in the summer months for admitted applicants to refresh their knowledge or makeup for any deficiency in this knowledge.

Students without this prerequisite knowledge but otherwise possess good credentials will be given conditional admission and have to take this remedial coursework in the summer months prior to starting the program in the fall term

Program Requirements

Students must complete a total of 30 credits in order to earn the M.S. in Data Science and Business Analytics with a major in Data Driven Business.

The "interdisciplinary core" includes 9 credits of coursework across business, computer science, and industrial engineering. On top of this integrated breadth of study covering the core areas of data science and business analytics, each student has 9 credits of major courses to give them depth in an engineering, business, or analytics area. Each student's 6 credits of elective choices can be personalized to support their individual career goals. The final piece of the curriculum is a 6-credit applied analytics practicum, in which students will work with companies and organizations on real analytics problems.

Code	Title	Credits
Module 1: Core Courses		
DSB 6000	Data Science Strategy & Leadership	3
DSA 6000	Data Science and Analytics	3
DSE 6000	Computing Platforms for Data Science	3
Module 2: Major Courses		
DSB 6100	Marketing Analytics	3
DSB 6200	Manufacturing & Supply Chain Analytics	3
CSC 5800	Intelligent Systems: Algorithms and Tools	3
or CSC 5825	Introduction to Machine Learning and Applications	
or IE 7860	Intelligent Analytics	
Module 3: Electives		
Elective courses can come from other tracks of the Data Science & Business Analytics program or from outside the program.		6
Module 4: Applied Analytics Practicum		
DSB 7500	Data Science and Analytics Practicum	6
Total Credits		**30**

All course work must be completed in accordance with the regulations of the Graduate School and the Mike Ilitch School of Business governing graduate scholarship and degrees; see the sections beginning under Academic Regulations (http://bulletins.wayne.edu/graduate/general-information/academic-regulations/) and Academic Regulations for the Mike Ilitch School of Business (http://bulletins.wayne.edu/graduate/school-business/academic-regulations/), respectively.