CMU TEPPER BUSINESS ANALYTICS TRACK
Curriculum 2024-2025

Business Analytics Track students must take **7 courses and complete the capstone project**. Among the 7 courses, students must complete **3 core courses** (including Modern Data Mgt and Data Mining) and **4 application courses**. Additional classes, relevant to business analytics, might be approved.

Core Classes		Offered FT	Offered OH
45-881	Modern Data Management (**Required**)	M1 and M4	M6
45-851	Data Mining (**Required**)	M2	M2 and M4
45-980	Big Data	M4	M1
45-885	Data Visualization		M4
45-911	Statistical Models for Management and Control		M4
45-886	Programming in R & Python	M2	
46-881	Programming in R & Python	M1	M2
46-883	Statistical Fundamentals of Business Analytics	M2	M3
46-885	Data Exploration & Visualization	M1	M4
46-886	Machine Learning Fundamentals	M3	M4
46-887	Machine Learning for Business Applications	M2	M2
46-889	Business Value through Integrative Analytics	M4	M1

Applications in Operations		Offered FT	Offered OH
45-850	Applications of Operations Research	M1	
45-950	Operations Research Implementations	M3	
45-952	End-to-End Business Analytics	M2	M2
45-854	Optimization Models for Operations		
45-863	Risk Analytics	M1	
46-893	Operations and Supply Chain Analytics	M4	M4
45-960	Sustainable Operations	M2	M2

Applications in Finance		Offered FT	Offered OH
45-820	Finance II	M1 and M3	M1
45-821	Investment Analysis	M1	
45-823	Options		
45-900	Business Language Analytics	M4	
45-920	Data Science for Finance		M6
45-924	Debt Markets	M4	

Applications in Marketing		Offered FT	Offered OH
45-830	Marketing Research	M3	M3
45-882	Digital Marketing and Social Media Strategy	M2	M2
45-934	Interactive Marketing	M2	
45-936	Marketing Analytics		

46-894	Analytical Marketing	M3	M3[1]

Applications in Management		Offered FT	Offered OH
45-925	AI Applications in Business	M4	
45-946	People Analytics	M2	

Capstone		Offered FT	
45-959	Business Analytics Project	M3 and M4	CONSISTENTLY M3-M4

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[1] Updated 11/11/24