

UNIVERSITY OF NORTH TEXAS G. BRINT RYAN COLLEGE OF BUSINESS



MS BUSINESS ANALYTICS (STEM) (2020-2021)

The Master of Science with a major in Business Analytics is designed to provide an appropriate base of knowledge for entry into the business intelligence or business analytics fields. This STEM approved program is intended for those students who desire a strong, specialist degree in business analytics that incorporates a solid understanding of both the application and use of business analytics and technology that underlies and facilitates those applications.

CAREER POSSIBILITIES

Data Scientist | Business Intelligence Architect | Business Analyst | Business Process Analyst | Data Warehousing Architect | BI Competency Center (BICC) Professional | Data/Information Architect | Business Intelligence Developer | Predictive Modeler | Predictive Analytics Architect | Data Mining Analyst | Data Analyst | Social Media Analyst | Social Media Analyst | Customer Analytics Modeler | BI Architecture Developer

RECOMMENDED BACKGROUND:

Calculus
Statistics

COURSE REQUIREMENTS

FOUNDATION COURSES (15 HOURS)

DSCI 5210 (3 hrs) Model Based Business Intelligence
DSCI 5240 (3 hrs) Data Mining
DSCI 5340 (3 hrs) Predictive Analytics and Business Forecasting
BCIS 5420 (3 hrs) Foundations of Database Management

Students must choose from 1 of the following 2 courses:

BCIS 5700 (3 hrs) Strategic Use of Information Technology (*must be taken in final semester or final 12 hours*)
DSCI 5260 (3 hrs) Business Process Analytics

ELECTIVE COURSES (21 HOURS)

Students may mix & match elective courses, and can choose from any 5000 level BCIS or DSCI courses (excludes DSCI 5180). Students can take up to 6 hours outside the department with prior department approval.



QUESTIONS OR READY TO APPLY?

CONTACT A STAFF MEMBER IN THE GRADUATE PROGRAM'S OFFICE
AT MBACOB@UNT.EDU OR CALL 940-369-8977

TRACKS AVAILABLE IN:

Data Science and Advance Analytics, Data Engineering and Business Intelligence, Operations Analytics, Marketing Analytics, and Audit/Fraud Analytics.

Students are required to receive approval from department advisor before registering for track courses.

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COURSE NUMBER	COURSE NAME	PROPOSED SCHEDULE OF COURSE OFFERINGS		
		FALL	SPRING	SUMMER

FOUNDATION COURSES (15 HOURS)

DSCI	5210	MODEL BASED DECISION MAKING	✓ ONLINE	✓ DENTON ✓ FRISCO	
DSCI	5240	DATA MINING	✓ ONLINE ✓ DENTON ✓ FRISCO	✓ DENTON	
DSCI	5340	PREDICTIVE ANALYTICS AND BUSINESS FORECASTING	✓ DENTON	✓ DENTON	✓ FRISCO
BCIS	5420	FOUNDATIONS OF DATABASE MANAGEMENT	✓ DENTON ✓ FRISCO	✓ DENTON	
CHOOSE 1 OF THE FOLLOWING 2 COURSES:					
BCIS	5700	STRATEGIC USE OF INFORMATION TECHNOLOGY <i>(THIS COURSE IS TAKEN IN YOUR LAST TERM)</i>	✓ DENTON	✓ DENTON	✓ DENTON
DSCI	5260	BUSINESS PROCESS ANALYTICS	✓ DENTON ✓ FRISCO		✓ ONLINE ✓ DENTON

ELECTIVE COURSES (21 HOURS)

BCIS	5110	PROGRAMMING LANGUAGES FOR BUSINESS ANALYTICS	✓ DENTON		
BCIS	5120	INFORMATION SYSTEMS DEVELOPMENT	✓ DENTON		
BCIS	5140	ARTIFICIAL INTELLIGENCE IN BUSINESS	✓ DENTON		
BCIS	5740	INFORMATION SECURITY MANAGEMENT	✓ DENTON		
DSCI	5250	STATISTICAL TECHNIQUES IN SIMULATION	✓ DENTON		
DSCI	5320	QUALITY CONTROL	✓ DENTON		
DSCI	5330	ENTERPRISE APPLICATIONS OF BUSINESS INTELLIGENCE	✓ DENTON ✓ FRISCO	✓ ONLINE	✓ DENTON
DSCI	5350	BIG DATA ANALYTICS		✓ DENTON ✓ FRISCO	
DSCI	5360	DATA VISUALIZATION FOR ANALYTICS		✓ DENTON	✓ DENTON ✓ FRISCO
DSCI	5800	INTERNSHIP	✓	✓	✓

ANY BCIS OR DSCI COURSE WHICH IS NOT ALREADY LISTED AS A REQUIRED COURSE MAY BE ACCEPTED AS AN ELECTIVE.