UNIVERSITY OF NORTH TEXAS
G. BRINT RYAN COLLEGE OF BUSINESS

MS BUSINESS ANALYTICS (STEM) (2021-2022)

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 POSSIBLITIES

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

QUESTIONS OR READY TO APPLY?

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

ELECTIVE COURSES (21 HOURS)

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

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. Please email itdsadv@unt.edu for more information.

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COURSE NUMBER		COURSE NAME	PROPOSED SCHEDULE OF COURSE OFFERERINGS		
			FALL	**SPRING**	**SUMMER**
FOUNDATION COURSES (15 HOURS)					
DSCI	5210	**MODEL BASED DECISION MAKING**	✓ONLINE	✓DENTON ✓FRISCO	✓ONLINE
DSCI	5240	**DATA MINING**	✓ONLINE ✓DENTON ✓FRISCO	✓DENTON	✓ONLINE
DSCI	5340	**PREDICTIVE ANALYTICS AND BUSINES 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** ✓ONLINE *(THIS COURSE IS TAKEN IN YOUR LAST TERM)*	✓DENTON	✓DENTON	✓DENTON
DSCI	5260	**BUSINESS PROCESS ANALYTICS**	✓DENTON ✓FRISCO		✓ONLINE ✓DENTON
ELECTIVE COURSES (21 HOURS)					
DSCI	5180	**INTRO TO BUSINESS DECISION PROCESS**	✓ONLINE ✓DENTON ✓FRISCO	✓ONLINE ✓DENTON ✓FRISCO	✓ONLINE
DSCI	5250	**STATISTICAL TECHNIQUES IN SIMULATION**	✓DENTON		
DSCI	5320	**QUALITY CONTROL**	✓DENTON		
DSCI	5330	**ENTERPRISE APPLICATIONS OF BUSINESS INTELLIGENCE** ✓ONLINE	✓DENTON ✓FRISCO	✓ONLINE	✓DENTON
DSCI	5350	**BIG DATA ANALYTICS**		✓DENTON ✓FRISCO	
DSCI	5360	**DATA VISUALIZATION FOR ANALYTICS**		✓DENTON	✓DENTON ✓FRISCO
BCIS	5110	**PROGRAMMING LANGUAGES FOR BUSINESS ANALYTICS**	✓DENTON		
BCIS	5120	**INFORMATION SYSTEMS DEVELOPMENT**		✓DENTON	
BCIS	5130	**FUNDAMENTALS OF PRESENTATION DESIGN**			✓DENTON
BCIS	5140	**ARTIFICIAL INTELLIGENCE IN BUSINESS**	✓DENTON		
BCIS	5150	**LEVERAGING IT FOR BUSINESS**	✓DENTON	✓ONLINE	✓ONLINE
BCIS	5610	**ENTERPRISE DATA WAREHOUSING**	✓DENTON ✓FRISCO	✓DENTON ✓FRISCO	✓DENTON ✓FRISCO
BCIS	5630	**INFORMATION TECHNOLOGY SECURITY**		✓DENTON	✓ONLINE
BCIS	5660	**ORGANIZING AND MANAGING IT PROJECTS**		✓DENTON	
BCIS	5670	**INTERNATIONAL ISSUES IN IT**		✓DENTON	✓DENTON
BCIS	5680	**WEB BASED SYSTEMS DEVELOPMENT**	✓DENTON		
BCIS	5740	**INFORMATION SECURITY MANAGEMENT**	✓DENTON		✓DENTON
BCIS	5750	**BLOCKCHAIN FOR BUSINESS**	✓DENTON ✓FRISCO		
DSCI	5800	**INTERNSHIP**	✓	✓	✓