

UNIVERSITY OF NORTH TEXAS G. BRINT RYAN COLLEGE OF BUSINESS



MS BUSINESS ANALYTICS (STEM)

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 | Customer Analytics Modeler | BI Architecture Developer

DEGREE REQUIREMENTS

FOUNDATION COURSES (18 HOURS)

DSCI 5180 (3 hrs.) Analytics Foundations for Business
DSCI 5240 (3 hrs.) Data Mining
DSCI 5330 (3 hrs.) Enterprise Applications of Business Intelligence
DSCI 5340 (3 hrs.) Predictive Analytics and Business Forecasting
DSCI 5260 (3 hrs.) Business Analytics Capstone (last semester)
BCIS 5420 (3 hrs.) Foundations of Database Management

SUPPORTING/ ELECTIVE COURSES (15 HOURS SELECTED FROM)

DSIC 5210 (3 hrs.) Model Based Business Intelligence
DSCI 5230 (3 hrs.) Non-Parametric Statistics for Business Research
DSCI 5250 (3 hrs.) Statistical Techniques in Stimulation
DSCI 5350 (3 hrs.) Big Data Analytics
DSCI 5360 (3 hrs.) Data Visualization for Analytics
DSCI 5400 (3 hrs.) Sport Business Analytics for Strategic Performance and Decision-Making
DSCI 5530 (3 hrs.) Ethics in Business Analytics
DSCI 5800 (3 hrs.) Internship
BCIS 5110 (3 hrs.) Programming for Business
BCIS 5120 (3 hrs.) Information Systems Development
BCIS 5140 (3 hrs.) Artificial Intelligence in Business
BCIS 5160 (3 hrs.) Artificial Intelligence Governance and Risk Management
BCIS 5170 (3 hrs.) Designing AI Solutions for Business
BCIS 5610 (3 hrs.) Enterprise Data Warehousing

BCIS 5670 (3 hrs.) International Issues in IT
BCIS 5740 (3 hrs.) Information Security Management
BCIS 5750 (3 hrs.) Blockchain for Business



READY TO APPLY? NEED TO GET ADVISED?

CONTACT AN ADVISOR IN THE GRADUATE PROGRAMS OFFICE
AT RCoBMasters@unt.edu OR CALL 940-369-8977

Course Sequence

COURSE SEQUENCE	
FALL START	SPRING START
<u>Fall</u> DSCI 5180 Analytics Foundations for Business DSCI 5330 Enterprise Applications for BI OR ELECTIVE 1 (DSCI 5360 or DSCI 5210 recommended) BCIS 5420 Foundations of Database Management	<u>Spring</u> DSCI 5180 Intro to Business Decision Process DSCI 5330 Enterprise Applications for BI OR ELECTIVE 1 (DSCI 5360 or DSCI 5210 recommended) BCIS 5420 Foundations of Database Management
<u>Spring</u> DSCI 5240 Data Mining (<i>Prerequisite: DSCI 5180</i>) DSCI 5340 Predictive Analytics and Business Forecasting ELECTIVE 1 (DSCI 5360 or DSCI 5210 recommended) OR DSCI 5330 Enterprise Applications for BI	<u>Summer (Optional)</u> DSCI 5240 Data Mining (<i>Prerequisite: DSCI 5180</i>) DSCI 5340 Predictive Analytics and Business Forecasting
<u>Summer (Optional)</u> ELECTIVE 2 ELECTIVE 3	<u>Fall</u> ELECTIVE 1 (DSCI 5360 or DSCI 5210 recommended) OR DSCI 5330 Enterprise Applications for BI ELECTIVE 2 ELECTIVE 3
<u>Fall</u> DSCI 5260 Business Analytics Capstone (<i>Prerequisites: DSCI 5240, must take in last semester</i>) ELECTIVE 4 ELECTIVE 5	<u>Spring</u> DSCI 5260 Business Analytics Capstone (<i>Prerequisites: DSCI 5240, must take in last semester</i>) ELECTIVE 4 ELECTIVE 5

The following tracks are suggested to provide students the opportunity to specialize and better prepare themselves for specific careers in business analytics:

TRACKS						
Elective	Data Science & Advanced Analytics	Data Engineering & Business Intelligence	Audit & Fraud (Requires pre-requisites and department approval)	Finance	Operations Analytics	Marketing Analytics
1	DSCI 5360	DSCI 5350	ACCT 5480*	FINA 5170*	LSCM 5830*	MKTG 5200*
2	BCIS 5140	DSCI 5210	ACCT 5410*	FINA 5250*	OPSM 5840*	MKTG 5240* (<i>Prerequisite: Principles of Marketing</i>)
3	BCIS 5110	BCIS 5610	ACCT 5440*	BCIS/DSCI Elective	BCIS/DSCI Elective	MKTG 5250*
4 (Select 1)	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective
5 (Select 1)	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective	BCIS/DSCI Elective

*A maximum of two non-BCIS/DSCI classes are allowed in the program. If you select a track, you are expected to stick with that track.