

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.) Intro to the Business Decision Process
DSIC 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
DSCI 5260 (3 hrs.) Business Process Analytics (taken in last semester)

SUPPORTING/ ELECTIVE COURSES (15 HOURS SELECTED FROM)

DSCI 5250 (3 hrs.) Statistical Techniques in Stimulation (Pre-req: DSCI 5180)
DSCI 5230 (3 hrs.) Non-Parametric Statistics for Business Research
DSCI 5330 (3 hrs.) Enterprise Applications of Business Intelligence
DSCI 5350 (3 hrs.) Big Data Analytics (Pre-req: BCIS 5420)
DSCI 5360 (3 hrs.) Data Visualization for Analytics
BCIS 5110 (3 hrs.) Programming Languages for Business Analytics
BCIS 5120 (3 hrs.) Information Systems Development
BCIS 5140 (3 hrs.) Artificial Intelligence in Business (Pre-req: DSCI 5180, BCIS 5110, DSCI 5240)
BCIS 5610 (3 hrs.) Enterprise Data Warehousing
BCIS 5670 (3 hrs.) International Issues in IT (Pre-req: BCIS 5120)
BCIS 5740 (3 hrs.) Information Security Management
BCIS 5750 (3 hrs.) Blockchain for Business
DSCI 5800 (3 hrs.) Internship



READY TO APPLY? NEED TO GET ADVISED?

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

Course Sequence

COURSE SEQUENCE	
FALL START	SPRING START
<u>Fall</u> DSCI 5180 Intro to Business Decision Process DSCI 5210 Model Based BI OR ELECTIVE 1 (DSCI 5360 or DSCI 5330) BCIS 5420 Foundations of Database Management	<u>Spring</u> DSCI 5180 Intro to Business Decision Process DSCI 5210 Model Based BI OR ELECTIVE 1 (DSCI 5360 or DSCI 5330) 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 5330 recommended) OR DSCI 5210 Model Based Business Intelligence	<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 5330 recommended) OR DSCI 5210 Model Based Business Intelligence ELECTIVE 2 ELECTIVE 3
<u>Fall</u> DSCI 5260 Business Process Analytics (<i>Must take last semester</i>) ELECTIVE 4 ELECTIVE 5	<u>Spring</u> DSCI 5260 Business Process Analytics (<i>Must take 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					
	Data Science & Advanced Analytics	Data Engineering & Business Intelligence	Audit & Fraud (Requires pre-requisites and department approval)	Operations Analytics	Marketing Analytics
Elective					
1	DSCI 5360	DSCI 5350	ACCT 5480	LSCM 5830	MKTG 5200
2	BCIS 5140	DSCI 5330	ACCT 5410	OPSM 5840	MKTG 5240
3	BCIS 5110	BCIS 5610	ACCT 5440	BCIS/DSCI Elective	MKTG 5250
4 (Select 1)	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