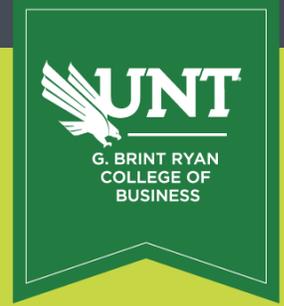


UNIVERSITY OF NORTH TEXAS G. BRINT RYAN COLLEGE OF BUSINESS



MS IN INFORMATION SYSTEMS AND TECHNOLOGIES (STEM)

The Master of Science with a major in Information Systems and Technologies is designed to provide an appropriate base of knowledge for entry into the management of information systems or decision sciences profession. This STEM approved program is intended for those students who desire a strong, specialist degree in the management of information technology or decision sciences. Because of its specialization and focus, the MS in Information Systems and Technologies differs significantly from an MBA program, which is designed for those students who desire a more general management background.

CAREER POSSIBILITIES

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

DEGREE REQUIREMENTS

FOUNDATION COURSES (15 HOURS)

BCIS 5110 (3 hrs.) Programming Languages for Business Analytics
BCIS 5120 (3 hrs.) Information Systems Development
BCIS 5420 (3 hrs.) Foundations of Database Management
BCIS 5700 (3 hrs.) Strategic Use of Information Technology
BCIS 5740 (3 hrs.) Information Security Management

SUPPORTING COURSES (15 HOURS SELECTED FROM)

BCIS 5130 (3 hrs.) Fundamentals of Presentation Design
BCIS 5140 (3 hrs.) A.I. in Business
(Pre-reqs: DSCI 5180, BCIS 5110, DSCI 5240)
BCIS 5610 (3 hrs.) Enterprise Data Warehousing
BCIS 5620 (3 hrs.) Networking and Telecommunication
BCIS 5630 (3 hrs.) Information Technology Security
BCIS 5650 (3 hrs.) Emerging Information Technologies
BCIS 5660 (3 hrs.) Organizing and Managing IT Projects
BCIS 5670 (3 hrs.) International Issues in IT (Pre-req: BCIS 5120)
BCIS 5760 (3 hrs.) Intro to Business Aspects of Digital Forensics
BCIS 5680 (3 hrs.) Web-Based Systems Dev. (Pre-req: BCIS 5120)
BCIS 5750 (3 hrs.) Blockchain for Business
BCIS 5800 (3 hrs.) Cooperative Education Internship
DSCI 5240 (3 hrs.) Data Mining & Machine Learning for Business
(Pre-req: DSCI 5180)
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
*DSCI 5180 will NOT apply towards the degree.



**READY TO APPLY? NEED TO GET
ADVISED?**

CONTACT A STAFF MEMBER 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> BCIS 5110 Programming Languages for Business Analytics* BCIS 5120 Information Systems Development* ELECTIVE 1 *Must take first semester	<u>Spring</u> BCIS 5110 Programming Languages for BA* BCIS 5120 Information Systems Development* ELECTIVE 1 *Must take first semester
<u>Spring</u> BCIS 5420 Foundations of Database Management BCIS 5740 Information Security Management ELECTIVE 2	<u>Summer (Optional)</u> BCIS 5420 Foundations of Database Management BCIS 5740 Information Security Management
<u>Summer (Optional)</u> ELECTIVE 3 ELECTIVE 4	<u>Fall</u> ELECTIVE 2 ELECTIVE 3 ELECTIVE 4
<u>Fall</u> BCIS 5700 Strategic Use of Information Technology (Must take last semester) ELECTIVE 5	<u>Spring</u> BCIS 5700 Strategic Use of Information Technology (Must take last semester) ELECTIVE 5

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

TRACKS					
Elective	Information Security	Application & Platform Development	Data Management	Digital Technology Management	Analytics-Based Systems (33 credit hours)
1	BCIS 5620	BCIS 5620	DSCI 5330	BCIS 5660	DSCI 5240
2	BCIS 5630	BCIS 5630	DSCI 5360	BCIS 5670	BCIS 5140
3	BCIS 5680	BCIS 5680	BCIS 5610	BCIS 5650	DSCI 5350
4 (Select 1)	BCIS 5750 BCIS 5760 BCIS Elective	BCIS 5650 BCIS 5140 BCIS Elective	BCIS 5680 BCIS Elective	BCIS 5800 BCIS Elective	BCIS 5610 DSCI 5360 BCIS/DSCI Elective
5 (Select 1)	BCIS 5800 DSCI 5530 BCIS Elective	BCIS 5800 BCIS Elective	BCIS 5800 BCIS Elective	BCIS 5800 BCIS Elective	BCIS 5800 BCIS/ DSCI Elective