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

**PROFESSIONAL ORGANIZATIONS**
Students majoring in Business Analytics have numerous opportunities to participate in student organizations. Among these are: Association for Information Systems (AIS) and INFORMS (cob.unt.edu/itds).

**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 (15–21 hours)**
- DSCI 5320 (3 hrs) Quality Control
- DSCI 5330 (3 hrs) Enterprise Applications of Business Intelligence
- DSCI 5350 (3 hrs) Big Data Analytics
- DSCI 5360 (3 hrs) Data Visualization Analytics
- DSCI 5250 (3 hrs) Statistical Techniques in Simulations
- BCIS 5120 (3 hrs) Information Systems Development
- BCIS 5140 (3 hrs) Artificial Intelligence in Business
- BCIS 5740 (3 hrs) Information Security Management

Up to 6 hours may be taken outside the department with prior consent
- DSCI 5180 may not be taken for credit in this program

**Background Courses/Content**
The College of Business Graduate Programs Office works with students to determine if background deficiency courses will be necessary. Background content might include Statistics and Calculus. Deficiencies can be completed via traditional academic coursework or through Ivy Software and Responsive.net. Ivy Software and Responsive.net deliver self-paced online learning modules that provide the needed background content without the need to formally enroll in courses at UNT. For more information go to cob.unt.edu/background.
### Course Number | Course Name | Proposed Schedule of Course Offerings
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### FOUNDATION COURSES (15 hours)
| 5210 | Model Based Business Intelligence | 16W (UNT) 16W (Frisco) |
| 5240 | Data Mining | 16W (UNT) 16W (Frisco) |
| 5340 | Predictive Analytics and Business Forecasting | 16W (UNT) 16W (Frisco) |
| 5420 | Foundations of Database Management | 16W (UNT) 16W (Frisco) |

**Must choose from 1 of the following 2 courses:**
| 5700 | Strategic Use of Information Technology (This is taken in your last term) | 16W (UNT) 16W (UNT) |
| 5260 | Business Process Analytics | 16W (UNT) 16W (Frisco) |

### ELECTIVE COURSES (21 hours select from)
| 5320 | Quality Control | 16W (UNT) 16W (Frisco) |
| 5330 | Enterprise Applications of Business Intelligence | 16W (UNT) 16W (Frisco) |
| 5350 | Big Data Analytics | 16W (UNT) 16W (Frisco) 3W1 (UNT) 3W1 (Frisco) |
| 5360 | Data Visualization for Analytics | 16W (UNT) 16W (Frisco) 3W1 (UNT) 3W1 (Frisco) |
| 5250 | Statistical Techniques in Simulation | 16W (UNT) 16W (Frisco) |
| 5120 | Information Systems Development | 16W (UNT) |
| 5140 | Artificial Intelligence in Business | 16W (UNT) |
| 5740 | Information Security Management | 16W (UNT) |

*Up to 6 hours may be taken outside the department with prior department consent.
DSCI 5180 may not be taken for credit in this program.