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

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### 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

#### ELECTIVE COURSES (21 HOURS)

Students may mix & match elective courses, and can choose from any 5000 level BCIS or DSCI courses (excludes DSCI 5180). Students can take up to 6 hours outside the department with prior department approval.

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**QUESTIONS OR READY TO APPLY?**

CONTACT A STAFF MEMBER IN THE GRADUATE PROGRAM’S OFFICE AT MBACOB@UNT.EDU OR CALL 940-369-8977
### MS BUSINESS ANALYTICS (STEM)

#### COURSE NUMBER | COURSE NAME |
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<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>PROPOSED SCHEDULE OF COURSE OFFERINGS</td>
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<tr>
<td></td>
<td>FALL</td>
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<tr>
<td>DSCI 5210</td>
<td>MODEL BASED DECISION MAKING</td>
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<td>STRATEGIC USE OF INFORMATION TECHNOLOGY</td>
</tr>
<tr>
<td>DSCI 5260</td>
<td>BUSINESS PROCESS ANALYTICS</td>
</tr>
</tbody>
</table>

#### FOUNDATION COURSES (15 HOURS)

- **BCIS 5700**  
  - **Program:** Information Systems Development  
  - **Term:** This course is taken in your last term

#### ELECTIVE COURSES (21 HOURS)

- **BCIS 5110**  
  - **Program:** Programming Languages for Business Analytics  
  - **Term:** DENTON
- **BCIS 5120**  
  - **Program:** Information Systems Development  
  - **Term:** DENTON
- **BCIS 5140**  
  - **Program:** Artificial Intelligence in Business  
  - **Term:** DENTON
- **BCIS 5250**  
  - **Program:** Statistical Techniques in Simulation  
  - **Term:** DENTON
- **BCIS 5320**  
  - **Program:** Quality Control  
  - **Term:** DENTON
- **BCIS 5330**  
  - **Program:** Enterprise Applications of Business Intelligence  
  - **Term:** DENTON
- **BCIS 5350**  
  - **Program:** Big Data Analytics  
  - **Term:** DENTON
- **BCIS 5360**  
  - **Program:** Data Visualization for Analytics  
  - **Term:** DENTON
- **BCIS 5800**  
  - **Program:** Internship  
  - **Term:** ✓

**Any BCIS or DSCI course which is not already listed as a required course may be accepted as an elective.**