

MS in Business Analytics

The arrival of the Big Data Era has created a significant demand for people who are well-educated in business analytics. The Department of Information Systems and Business Analytics is well-positioned to deliver this program with many faculty members who are scholars and/or have experience in this area.

The program will prepare students for business analytics careers in industry, government, health care and non-profit organizations. This program enhances the students' critical thinking, analytical skills, and practical experience in this field.

MS in Business Analytics:

Offered by the Department of Information Systems and Business Analytics, the Master of Science in business analytics is designed to meet the demand of professionals who have the capability to analyze big data to support improved organizational decision making.



Program Requirements:

- **Required Course Work - 18 s.h.**

- ✓ BAN 203 – Advanced Quantitative Analysis for Managers
- ✓ IT 203 - Information Systems for Managers
- ✓ BAN 230 – Spreadsheet Modeling and Decision Making
- ✓ BAN 271 – Data Visualization for Business Analytics
- ✓ IT 215 – Database Management Systems
- ✓ IT 270 – Data Mining for Business Analytics

```
green is my favorite color
yellow is my favorite color
red is my favorite color
>>> demod = {'green':'grass', 'red':'fire', 'yellow':'sun'}
>>> print(demod)
{'green': 'grass', 'yellow': 'sun', 'red': 'fire'}
>>> for i in demod:
        print(i)

green
yellow
red
>>> | I
```

Python Programing

- **Elective Courses - 9 s.h.:**

Choose three courses from the following:

- ✓ BAN 250 – Multivariate Data Analysis Methods
- ✓ BAN 275 – Time Series Analysis of Financial Data
- ✓ BAN 272 – Web Analytics for Managers
- ✓ BAN 273 – Advanced Techniques for Business Analytics
- ✓ BAN 265 – Python for Data Analysis
- ✓ BAN 266 – R Programming for Analytics
- ✓ IT 204 – Simulation in Business
- ✓ IT 216 – Advanced Data Base Management Systems
- ✓ IT 253 – IT Project Management
- ✓ IT 260 – Analytical and Statistical Methodologies in
Business Modeling for Managers
- ✓ IT 277 – Machine Learning



SAP Predictive Analytics



Tableau: Data Visualization

- **Required Capstone Course - 3 s.h.**

- ✓ BAN 280 – Practicum in Business Analytics