

# BUSINESS ANALYTICS, MS

**Program Director:** Deborah Kellogg and Gary Kochenberger

**Telephone:** 303-315-8435

**E-mail for Preferred Contact:** Deborah.Kellogg@ucdenver.edu

## Introduction

The MS in Business Analytics focuses on modeling and applications which prepares you for a career as a business analyst in industry or government. Today, companies in every conceivable industry are reaping the benefits of using formal mathematical models to assist them in addressing complex business problems. Business Analytics graduates hold positions that bridge the gap between operations research/statistics specialists and management.

Learn to apply quantitative methods to real-world problems using modern methodologies adopted from statistics, operations research, and management science. The MS in Business Analytics focuses on applications of mathematical models in the workplace rather than the development of new research techniques. The managerial emphasis of our degree is accomplished through a comprehensive set of elective and required coursework such as data analysis, forecasting, project management, simulation, predictive analytics, prescriptive analytics, and supply chain management. Students have the opportunity to learn current analytics tools such as R, Python, database tools, and Tableau.

This degree is designed to be completed in 18 to 24 months. However, with careful planning, in consultation with an academic advisor, full-time students may be able to complete the degree in 12 months.

Requirements for the MS degree in Business Analytics are met by the following courses and options:

Code	Title	Hours
<b>Business Analytics Core I</b>		
BANA 6610	Statistics for Business Analytics	3
BANA 6620	Computing for Business Analytics	3
BANA 6670	Prescriptive Analytics with Optimization	3
<b>Business Analytics Core II</b>		
Select three of the following:		9
BANA 6630	Time-Series Forecasting	
BANA 6640	Decision Analysis	
BANA 6660	Predictive Analytics	
BANA 6690	Network Modeling	
<b>Business Analytics Electives</b>		
Select any four courses <sup>1</sup>		12
Total Hours		30

<sup>1</sup> Select any four courses that include BANA courses numbered 6000 or higher as well as ISMG 6080 Database Management Systems or ISMG 6470 Text Data Analytics. Internships for credit and petitions are also considered.

## Notes and Restrictions

*Courses subject to change. Please reach out to graduate advising for questions.*

- Students are not required to take a comprehensive examination or complete a thesis in the major field.

**Note:** Business School MS degrees typically allow students to transfer in 9 semester hours from another university. However, the MS in Business Analytics (BANA) allows students to petition to have a maximum of 6 semester hours transfer from another university. The transfer of *required* courses must closely reflect the educational objectives of the Master's degree in Business Analytics. The evaluation of substitute courses will include syllabi evaluation and the accreditation of the transferring institution.