MASTER OF SCIENCE IN BUSINESS ANALYTICS

https://herbert.miami.edu/graduate/find-and-compare-programs/business-analytics/index.html

Overview

The Master of Science in Business Analytics program is an intensive experience that develops well-trained business analysts armed with the skills necessary to understand, manage and make use of big data in a business context. Over the course of 10 months, students learn how to turn abstract data into meaningful information with which to predict consumer behavior and forecast revenue and expenses for virtually any business model and any industry sector.

To obtain detailed program admission information, please reference the program brochure which can be requested by contacting the Office of Recruiting and Admissions at 305-284-2510 or by visiting the Miami Herbert Business School website (https://herbert.miami.edu/graduate/find-and-compare-programs/business-analytics/).

Admission Requirements

- Completed application for admission submitted through BusinessCAS
- A baccalaureate degree from an accredited institution
  - Official academic transcripts from all previously attended post-secondary institutions must be submitted directly to BusinessCAS.
  - International applicants must have their educational credentials from institutions outside of the United States verified by an approved international credentialing evaluation service such as World Education Services to confirm degree equivalency and GPA calculation.
- Statement of purpose and short-essay responses to the career goal and program-related questions in BusinessCAS
- A current resume
- At least one letter of recommendation (up to three allowed) may be submitted through the BusinessCAS portal by including recommender contacts within the Program Materials section of the application.
- Official GMAT (or GRE) score to be sent directly to the University of Miami Herbert Business School by using the relevant code below.
  - GMAT Institution Code is 7NV-S1-61
  - GRE institution Code is 5815
- An official TOEFL or IELTS score is required as proof of English proficiency for international applicants who did not receive a degree in the United States or a foreign country where English is the primary language. The following minimum score is required for admission to a graduate business degree program.
  - TOEFL - 94 or above (iBT only)
  - IELTS - 7.0 or above

If you do not yet have a GMAT or GRE score or TOEFL or IELTS score (international candidates only), you may complete and submit your application prior to taking the exam by indicating your approximate date within the Standardized Tests tab in the Academic History section. Select “Add Test Score” by the relevant test, then indicate that you have not yet taken the exam and add your estimated test date in the section provided.

We encourage candidates to upload unofficial transcripts and test scores (if required) with their BusinessCAS application in order to expedite the review of their file while official documents are processed.

QUESTIONS?

Connect with Miami Herbert Business School’s graduate enrollment advisors at (305) 284-2510, by email at mba@miami.edu, or visit the Miami Herbert Business School website (https://herbert.miami.edu/graduate/find-and-compare-programs/business-analytics/).

Curriculum Requirements

Code	Title	Credit Hours
Required Courses		**16**
BUS 610	Communicating for Career Success	2
MAS 627	Programming for Data Analytics	2
MAS 631	Statistics for Managerial Decision Making	2
MAS 632	Management Science Models for Decision Making	2
MAS 637	Applied Regression Analysis I	2
MAS 639	Data Acquisition, Preparation, and Visualization	2
MAS 648	Machine Learning for Data Analytics I	2
MAS 650	Business Analytics Internship [1]	2
Electives		16

At least two of the following [2]	
MAS 640	Applied Time Series Analysis and Forecasting
MAS 646	Applied Regression Analysis II
MAS 649	Big Data Analytics
MAS 651	Machine Learning for Data Analytics II
Additional Electives [3 and 4]	
MAS 629	SAS Programming for Business Analytics
MAS 633	Introduction to Quality Management
MAS 636	Dashboard Tools for Visual Analytics
MAS 634	Administrative Systems for Quality Management
MAS 638	Business Analytics Consulting
MAS 652	Business Analytics Capstone Project
ACC 628	Introduction to Accounting Analytics
ACC 670	Financial Reporting and Analysis
BTE 601	Programming for Distributed Systems
MGT 616	Foundations in Management Consulting
MGT 642	Supply Chain Analytics
MGT 697	Graduate Business Career Connect Course
MKT 675	Marketing Analytics
Total Required Credits	**32**

1 Students may take MAS 652 Business Analytics Capstone Project as a replacement of MAS 650 Business Analytics Internship if an internship cannot be obtained.

2 Students must take at least two courses between MAS 640, MAS 646, MAS 649 & MAS 651.

3 16 credits of electives (approximately 8 courses) are required. Elective offerings are based on class demand.

4 List contains commonly taken electives but is not exhaustive.

The curriculum defines a common core of required courses (16 credits) and allows the selection of elective courses (16 credits). A minimum of 4 elective credits must be taken from MAS 640, MAS 646, MAS 649, or MAS 651.

At least one term of part-time (10-20 hours per week) practical training and concurrent enrollment in MAS 650 is mandatory for the Master of Science in Business Analytics degree. Practical training is defined as "alternative work/study, internship, cooperative education, or any other type of required internship or practicum that is offered by sponsoring employers, conforming to the academic calendar." The practical training and concurrent enrollment in MAS 650 must be approved in advance by the faculty director. International students in F-1 status are required to obtain authorization for Curricular Practical Training (CPT) from the Department of International Student and Scholar Services (ISSS) prior to engaging in off-campus employment. A student may take MAS 652 Business Analytics Capstone in place of MAS 650 if the student is unable to secure practical training, provided that the student can show that they have put sufficient effort into seeking practical training opportunities. Requests to enroll in MAS 652 in place of MAS 650 must be approved by the faculty director.

Sample Plan of Study

Year One		
Fall		**Credit Hours**
MAS 631	Statistics for Managerial Decision Making	2
Session I		
MAS 627	Programming for Data Analytics	2
MAS 637	Applied Regression Analysis I	2
MAS 639	Data Acquisition, Preparation, and Visualization	2
Elective		2
Session II		
BUS 610	Communicating for Career Success	2
MAS 632	Management Science Models for Decision Making	2
MAS 648	Machine Learning for Data Analytics I	2
Elective		2
	Credit Hours	**18**

Spring		
Session I		
MAS 640	Applied Time Series Analysis and Forecasting	2
MAS 646	Applied Regression Analysis II	2
MAS 651	Machine Learning for Data Analytics II	2
Elective		2
Session II		
MAS 649	Big Data Analytics	2
MAS 650 or 652	Business Analytics Internship or Business Analytics Capstone Project	2
Elective		2
	Credit Hours	**14**
	Total Credit Hours	**32**

Mission

- To develop individuals that are prepared to use the methods and technology of analytics and data science to impact global business and society.

Student Learning Outcomes

- Students will develop skills in acquiring, preparing and visualizing data.
- Students will develop and use data mining methods and software tools.
- Students will learn to use decision models.
- Student will develop and use predictive models.