

Curriculum: Master of Science in Accounting Analytics

MASTER OF SCIENCE IN ACCOUNTING ANALYTICS

Effective January 2021

(30 credits)

*Pre Program Requirements

(18 credits)

<u>Course</u>	<u>Title</u>	<u>Prerequisite</u>
GR 521	Managerial Statistics	None
AC 611	Financial Accounting Problems I	GR524
AC 612	Financial Accounting Problems II	AC611
AC 730	Business Processes and Controls Assessment	None
AC 741	Financial Statement Audit	AC611 and Pre or Co-Req: AC730
<i>Choose one of the following:</i>		
IDCC 620 or	Managerial Communication	None
IDCC 711	Argumentation Strategies for Business	None

Required Courses

(24 Credits)

<u>Course</u>	<u>Title</u>	<u>Prerequisite</u>
AC 742	Information Technology Audit	AC741 or AC744
AC 777	Accounting Analytics in Practice	AC742 or AC750 or TX601, and MA705 or ST625, and CS605 or AC731
CS 605	Data Management and SQL for Analytics	None
FI 631	Financial Modeling	FI625 or GR525
IPM 652	Managing with Analytics	None
MA 705	Data Science	Pre or Co-Req: GR 521
ST 625	Quantitative Analysis for Business	GR521
ST 635	Intermediate Statistical Modeling for Business	ST625

Elective Courses

(6 Credits)

- Select 2 courses from following electives

<u>Course</u>	<u>Title</u>	<u>Prerequisite</u>
AC 701**	Internship in Accounting Practice	3 AC courses
AC 731	Financial Information Systems	AC730
AC 772	Principles of Fraud Investigation	Pre or Co-Req GR524 or AC611
AC 773	Fraud and Forensic Accounting	Pre-Req: AC611, AC612 recommended
AC 793	Professional Accounting Research & Policy	Pre-Req: AC612 and Pre or Co-Req: AC730 and AC741
CS 602	Data-Driven Development with Python	None
CS 603	Object-Oriented Application Development	None
CS 650	Data Analytics Architectures with Big Data	CS602 and CS605
CS 733	Artificial Intelligence Techniques & Applications	CS602
CS 753	Business Intelligence Methods & Technologies	CS605
IPM 723	Information Security, Control and Ethics	None
IPM 740	Enterprise Systems Planning and Configuration	AC730 or GR 602
MA 707	Introduction to Machine Learning	ST635 and MA705

ADVISING GUIDANCE

* Students who have completed comparable coursework may be eligible to waive pre-program requirements.

** Internship must be in an analytics role.

- All course work must be completed within five years.
- All course prerequisites must be satisfied. Please note that the stated prerequisites of a course may also have a prerequisite that must be satisfied.
- GR500 and GR600 level courses are designated on the course schedule as “D”, “P”, or “AL”. The “D” section is reserved for students whose primary degree is Full-Time MBA and the “P” sections are reserved for all other MS and Part-Time MBA students. The “AL” section is reserved for Accelerated Online MBA students with a limited number of seats open to students in other programs.