

# Master of Science in Accounting Analytics

The Master of Science in Accounting Analytics degree combines courses from Accountancy, Computer Information Systems, Finance, Information and Process Management, and Mathematical Sciences to prepare students for data-rich, technology-intensive careers in public accounting or corporate settings. The STEM-designated degree, the first of its kind in New England, consists of ten courses and can be completed in one year by students with appropriate accounting preparation.

The MSAA program provides graduates with a unique skill set designed to fulfill the growing demand by professional accounting and corporate employers for new staff members with deep and integrated accounting, technology and analytics knowledge. Students will find the program a valuable alternative to meeting the 150-hour requirement for CPA certification (<https://www.aicpa.org/becomeacpa/gettingstarted.html>). The program also provides opportunities for those not seeking CPA certification and experienced staff who are seeking to enhance their skills and knowledge. The degree also prepares graduates to sit for other globally recognized credentials such as the Certified Information System Auditor (<http://www.isaca.org/Certification/CISA-Certified-Information-Systems-Auditor/Pages/default.aspx>) (CISA) designation.

Course	Title	Credits
<b>Pre-Program Foundation Courses (18 credits)</b>		
Students with the appropriate background may be waived from the following courses:		
GR 521	Managerial Statistics	3
AC 611	Financial Accounting Problems I	3
AC 612	Financial Accounting Problems II	3
AC 730	Business Processes and Controls Assessment	3
AC 741	Financial Statement Audit	3
IDCC 620	Managerial Communication	3
or		
IDCC 711	Argumentation Strategies for Business	3
<b>REQUIRED COURSES (24 credits)</b>		
<b>Analytics Core</b>		
CS 605	Data Management and SQL for Analytics	3
IPM 652	Managing with Analytics	3
ST 625	Quantitative Analysis for Business	3
<b>Accounting Analytics Core</b>		
AC 777	Accounting Analytics in Practice	
AC 742	Information Technology Audit	3
FI 631	Financial Modeling	3
MA 705	Data Science	3
ST 635	Intermediate Statistical Modeling for Business	3

<b>ELECTIVE COURSES (6 credits)</b>		
AC 701	Internship in Accounting Practice	3
AC 731	Financial Information Systems	3
AC 772	Principles of Fraud Investigation	3
AC 773	Fraud and Forensic Accounting	3
AC 793	Professional Accounting Research and Policy	3
CS 602	Data-Driven Development With Python	3
CS 603	Object-Oriented Application Development	3
CS 650	Data Management Architectures	3
CS 733	Artificial Intelligence Techniques and Applications	3
CS 753	Business Intelligence Methods and Technologies	3
IPM 723	Information Security, Controls and Ethics	3
IPM 740	Enterprise Systems Planning and Configuration	3
MA 707	Introduction to Machine Learning	3

Please note: All course work must be completed within five years.