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 kindin 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.

Credits

3

Course

MA 705

ST 635

Title

Pre-Program Foundation Courses (18 credits)

Data Science

Business

Pre-Program P	oundation Courses (18 credits)	
Students with from the follow	the appropriate background may be waived ving 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 Systems Assessment	3
AC 741	Financial Statement Auditing	3
IDCC 620	Managerial Communication	3
or		
IDCC 711	Argumentation Strategies for Business	3
REQUIRED COU	IRSES (24 credits)	
Analytics Core		
CS 605	Data Management and SQL for Analytics	3
IPM 652	Managing with Analytics	3
ST 625	Quantitative Analysis for Business	3
Accounting Ana	llytics Core	
AC 777	Accounting Analytics in Practice	
AC 742	Information Technology Auditing	3
FI 631	Financial Modeling	3

Intermediate Statistical Modeling for

SES (6 credits)	
Internship in Accounting Practice	3
Advanced Accounting Information Systems: Modeling Effective Accounting Systems	3
Principles of Fraud Investigation	3
Fraud and Forensic Accounting	3
Professional Accounting Research and Policy	3
Data-Driven Development With Python	3
Object-Oriented Application Development	3
Data Management Architectures	3
Artificial Intelligence Techniques and Applications	3
Business Intelligence Methods and Technologies	3
Information Security, Controls and Ethics	3
Enterprise Systems Planning and Configuration	3
Introduction to Machine Learning	3
	Advanced Accounting Information Systems: Modeling Effective Accounting Systems Principles of Fraud Investigation Fraud and Forensic Accounting Professional Accounting Research and Policy Data-Driven Development With Python Object-Oriented Application Development Data Management Architectures Artificial Intelligence Techniques and Applications Business Intelligence Methods and Technologies Information Security, Controls and Ethics Enterprise Systems Planning and Configuration

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