

# Master of Science in Accounting Analytics

MS

In the next few years, more than 2 million new data analytics jobs will be created, boosting related employment opportunities by a staggering 45 percent. The Bentley Master of Science in Accounting Analytics (MSAA) provides the skills and experience you need to get ahead of the competition in this fast-growing, competitive big data job market.

The high demand for accounting graduates with strong data and analytics skills is the reason why Bentley created a degree for students interested in audit firm practices such as risk management and process assurance. You'll gain skills in accounting practices and advanced expertise in accounting and auditing, using industry tools to explore data mining and predictive analytics.

## Program Features

- Courses from five departments (Accountancy, Computer Information Systems, Finance, Information Process Management, Mathematics) sharing a common core with other MS in Analytics programs.
- Built around eight core competency courses coupled with two focused electives, the degree can be completed in 12 to 18 months.
- AACSB accredited, and the first graduate accounting program of its kind.
- STEM designation, increasing employability of international students due to three years of OPT (optional practical training).

## Experiential Learning

Success in today's business world requires a practical, hands-on approach to information, whether you are analyzing it, integrating it or sharing it. Our high-tech learning labs ensure that you'll have access to the leading edge of technology, giving you every opportunity to cut your teeth on the equipment and software being used in the business world today. MSAA candidates can take advantage of the Howard A. Winer '58 Learning Lab for Economics, Accounting and Finance (LEAF), and learn how to manipulate working solutions from real data trends they've uncovered.

## Career Outcomes

An MSAA prepares you for such careers as:

- Professional accounting
- Internal auditing
- Audit analytics
- Quantitative Analytic Associate



**BENTLEY UNIVERSITY**



“I can now stand out in this rapidly growing job market.”



**Ereza**

Women in Entrepreneurship Supervisor  
TEB

**Curriculum**

Foundation (6 courses)

**All applicants will be evaluated for foundation course waivers.**

- AC 611** Financial Accounting Problems I

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- AC 612** Financial Accounting Problems II

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- AC 730** Business Processes and Systems Assessment

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- AC 741** Financial Statement Auditing

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- GR 521** Managerial Statistics

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- IDCC 620** Managerial Communication

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Core (8 courses)

**Analytics Core**

- CS 605** Data Management and SQL for Analytics

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- IPM 652** Managing with Analytics

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- ST 625** Quantitative Analysis for Business

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**Accounting Analytics Core**

- AC 742** Information Technology Audit

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- AC 777** Accounting Analytics in Practice

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- FI 631** Financial Modeling

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- MA 705** Data Science

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- ST 635** Intermediate Statistical Modeling for Business

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Electives (2 courses)

- AC 701** Internship in Accounting Practice *(must be in an analytics role)*

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- AC 731** Advanced Accounting Information Systems: Modeling Effective Accounting Systems

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- AC 772** Principles of Fraud Investigation

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- AC 773** Fraud and Forensic Accounting

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- AC 793** Professional Accounting Research and Policy

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- CS 602** Data-Driven Development with Python

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- CS 603** Object-Oriented Application Development

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- CS 650** Data Management Architectures

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- CS 733** Artificial Intelligence Techniques and Applications

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- CS 753** Business Intelligence Methods and Technologies

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- IPM 723** Information Security, Controls and Ethics

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- IPM 740** Enterprise Systems Planning and Configuration

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- MA 707** Introduction to Machine Learning

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For complete degree requirements and most up-to-date course options, visit [bentley.edu/graduate](https://bentley.edu/graduate).

[bentley.edu/graduate/accounting-analytics](https://bentley.edu/graduate/accounting-analytics)

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