

AD482 Special Topics in Information Systems: Business and Accounting Analytics

Summer 2026 Course Outline

INSTRUCTOR AND CONTACT INFORMATION

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COURSE OBJECTIVES

- Use a variety of descriptive, predictive, and prescriptive analytical models to evaluate data authenticity and identify anomalies.
- Develop the students' ability to understand, correctly select, and apply the appropriate data analytics tool or problem-solving approach for a given situation.
- Develop a systematic way to analyze a large business and accounting data
- Provide an opportunity for students to further develop their critical thinking skills.

COURSE DESCRIPTION

This course is designed to introduce necessary tools and techniques to improve students' data analysis and decision-making skills. These skills are important for defining and solving many types of business problems and are in high demand in the areas of internal and external auditing, forensic accounting, and fraud investigation. **The course does not assume any background and gives opportunity to a student from any major to explore the field of business and accounting analytics using MS Excel in a fun way.**

TEXTBOOK

Camm/Cochran/Fry/Ohlmann/Anderson/Sweeney/Williams, **Business Analytics**, 4th Edition

Additional Resources:

Bart Baesens et al., (2015), **Fraud Analytics** Using Descriptive, Predictive, and Social Network Techniques: A Guide to Data Science for Fraud Detection, 1st edition, Wiley, ISBN: 978-1119133124

Mark J. Nigrini, (2011), **Forensic Analytics**: Methods and Techniques for Forensic Accounting Investigations, 1st edition, Wiley, ISBN: 978-0470890462

Sunder Gee, (2014), **Fraud and Fraud Detection**: A Data Analytics Approach, 1st edition, Wiley,

EVALUATION

Participation	20%
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Group Project	30%
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Take Home Final Exam	50%
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