

BUDT

Decision and Information Technologies

Fall 2025

BUDT700

Business Communication

(Perm req)

Credits: 1 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758A or BUDT700. Formerly: BUDT758A.

Consists of written and oral base-line assessments. Students will meet with Program administrators to receive feedback on these assessments and create an individualized development plan. Workshops and core course assignments, Smith-related activities and CMP assignments.

0506	Cary Gillett	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	W 7:00pm - 8:50pm	Location: TBA
	Class time/details on ELMs	ONLINE
0507	Cary Gillett	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	Th 7:00pm - 8:50pm	Location: TBA
	Class time/details on ELMs	ONLINE

BUDT702

Database Management Systems

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

Introduction to the conceptual, logical and physical design of relational database systems and their use in business environments. Topics include information modeling and optimization via normalization; Structured Query Language (SQL); Data Warehousing.

0501	Woei-jyh Lee	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	MW 10:00am - 11:50am	Location: TBA

0502	Woei-jyh Lee	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	MW 2:00pm - 3:50pm	Location: TBA

BUDT703

Database Management Systems

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758Y OR BUDT703. Formerly: BUDT758Y.

Introduction to the conceptual, logical and physical design of relational database systems and their use in business environments. Topics include information modeling and optimization via normalization; Structured Query Language (SQL); Data Warehousing.

0506	Woei-jyh Lee	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 9:30am - 10:45am	Location: TBA

BUDT704

Data Processing and Analysis in Python

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758X OR BUDT704. Formerly: BUDT758X.

An introduction to the Python programming language for the purpose of processing, analyzing, and visualizing data. In addition, students will be introduced to developing basic regression, optimization, and simulation models in Python, using highly popular packages. Course emphasis is on mastering basic Python functionality and developing intermediate to advanced skills in working with data, through instruction and active learning.

0501	Manmohan Aseri	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 5:00pm - 6:15pm	Location: TBA
0502	Manmohan Aseri	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 6:30pm - 7:45pm	Location: TBA

0506	Peng Huang	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 2:00pm - 3:15pm	Location: TBA

BUDT705

Data Visualization for Business

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.

An introduction to data visualization techniques. Data-driven decisions are increasingly embedded in business organizations, so professionals must be able to explore and communicate data with understandable and powerful visualizations.

0501	Jessica Clark	Seats (Total: 30, Open: 0, Waitlist: 2)
	Meets August 25, 2025 - October 10, 2025	
	TuTh 12:00pm - 1:50pm	Location: TBA
0502	Jessica Clark	Seats (Total: 30, Open: 0, Waitlist: 1)
	Meets August 25, 2025 - October 10, 2025	
	TuTh 2:00pm - 3:50pm	Location: TBA

BUDT721

Digital Transformation in Business

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758E or BUDT721. Formerly: BUDT758E.

Introduces students to the strategic role of digital transformation within businesses, and provides an overview for how major information technologies may be used to inform and transform the firm's strategic, operational, and tactical decisions. Topics discussed in the course include the strategic use of digital technologies to generate sustainable competitive value; the contributions of new forms of technology infrastructure; the evaluation of new technology investments and the resulting ROI; acquiring, managing and governing technological capabilities within the firm; understanding the role of enterprise systems and social technologies within the firm; and the management of disruptive technologies within and outside the firm.

0501	Il-Horn Hann	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets October 20, 2025 - December 12, 2025	
	TuTh 12:00pm - 1:50pm	Location: TBA

0504	Il-Horn Hann	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets October 20, 2025 - December 12, 2025	
	TuTh 2:00pm - 3:50pm	Location: TBA

BUDT722

Managing Digital Business Markets

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BUDT758G or BUDT722. Formerly: BUDT758G.

The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.

0501	Siva Viswanathan	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	TuTh 2:00pm - 3:50pm	Location: TBA
0504	Siva Viswanathan	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	TuTh 12:00pm - 1:50pm	Location: TBA

BUDT724

Project Management in Dynamic Environments

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.

Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.

0501	Paul Shapiro	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets October 20, 2025 - December 12, 2025	
	TuTh 2:00pm - 3:50pm	Location: TBA
0504	Paul Shapiro	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets October 20, 2025 - December 12, 2025	
	TuTh 12:00pm - 1:50pm	Location: TBA

BUDT730**Data Models and Decisions**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BUSI758B, BUDT758Q or BUDT730. Formerly: BUDT758Q.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0506	Sujin Kim	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 12:30pm - 1:45pm	Location: TBA

BUDT731**Data, Models, and Decisions Using R**

(Perm req)

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.

0501	Eaman Jahani	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	MW 4:00pm - 5:50pm	Location: TBA
0502	Eaman Jahani	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	MW 12:00pm - 1:50pm	Location: TBA

BUDT732**Decision Analytics**

(Perm req)

Credits: 3 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BMGT732, BUDT758P or BUDT732. Formerly: BMGT732 and BUDT758P.

Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.

0506	Alexander Estes	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 11:00am - 12:15pm	Location: TBA

BUDT733

Data Mining and Predictive Analytics

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

With vast quantities of data being generated, including new types of data such as web traffic, social network data, and reviews and comments on websites, "big data" and "analytics" are important topics. Data, when used correctly, can create a competitive edge for firms. Advances in computing hardware and algorithms have improved the quality of predictions and effectiveness of predictive business applications. Expertise in working with data, and deep knowledge of data mining/machine learning methods, is a sought-after skill. This course introduces key tools and techniques of data mining: classification, prediction, cluster analysis, and text mining. The methods covered are linear and logistic regression, k-nearest neighbors, naive Bayes, classification and regression trees, ensemble methods, neural networks, k-Means and hierarchical clustering, and association rules. The course will focus on business applications, with examples from Marketing, Finance, Healthcare, and Operations.

0504	Jessica Clark	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	MW 2:00pm - 3:50pm	Location: TBA

BUDT748

Industry Practicum

Credits: 3 Grading Method: Regular

This capstone course will provide students an opportunity to work on a real-world project where they will work with a company to use technology to solve a business problem.

0501	Minoo Modaresnezhad	Seats (Total: 30, Open: 3 , Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 9:30am - 10:45am	TYD 1118
0502	Minoo Modaresnezhad	Seats (Total: 30, Open: 6 , Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 8:00am - 9:15am	Location: TBA

0503	Paul Shapiro	Seats (Total: 30, Open: 6 , Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 6:30pm - 7:45pm	Location: TBA
0504	Paul Shapiro	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	MW 5:00pm - 6:15pm	Location: TBA

BUDT756

Causal Inference & A/B Testing

Credits: 2 Grading Method: Regular

Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.

Organizations and policymakers in government constantly grapple with such causal questions. For example, firms want to know how does a price change affect the sales of a product, or how to design websites and platforms that increase consumer engagement and lead generation; political parties want to know what on social media sites can boost their political influence, and governments want to know whether allowing parents to pay for private schools using publicly funded vouchers make the education system more effective. In particular, platforms such as Netflix, Airbnb, eBay, Groupon, Booking.com, Uber, Amazon, etc. make extensive and continuous use of A/B tests and have a dedicated team of data scientists and IT-personnel to implement, monitor and analyze such tests. Banks and Insurance companies constitute another important sector where the use of A/B testing is ubiquitous.

0501	Jui Ramaprasad	Seats (Total: 35, Open: 0, Waitlist: 18)
	Meets August 25, 2025 - October 10, 2025	
	MW 12:00pm - 1:50pm	Location: TBA

BUDT758I

Special Topics in Decision, Operations and Information Technologies; Applied Finance Information Systems

Credits: 2 Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Harish Neelakandan	Seats (Total: 30, Open: 0, Waitlist: 1)
	Meets August 25, 2025 - October 10, 2025	
	MW 6:00pm - 7:50pm	Location: TBA

BUDT758L

Special Topics in Decision, Operations and Information Technologies; Price Optimization & Revenue Management

(Perm req)

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

For MS in Business Analytic students only.

0506	Yi Xu	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 3:30pm - 4:45pm	Location: TBA
0507	Yi Xu	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	TuTh 5:00pm - 6:15pm	Location: TBA

BUDT758O

Special Topics in Decision, Operations and Information Technologies; Designing AI Systems

Credits: 2

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0501	Tejwansh Anand	Seats (Total: 30, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - October 10, 2025	
	TuTh 4:00pm - 5:50pm	Location: TBA

BUDT758W

Special Topics in Decision, Operations and Information Technologies; Capstone Project in Business Analytics

(Perm req)

Credits: 3

Grading Method: Regular

Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.

0506	Suresh Acharya	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	M 7:00pm - 9:40pm	Location: TBA
	<i>For MS in Business Analytics students only.</i>	
0507	Suresh Acharya	Seats (Total: 0, Open: 0, Waitlist: 0)
	Meets August 25, 2025 - December 12, 2025	
	Contact instructor or department for details.	

BUDT759 Independent Study in Decision and Information Technologies

(Perm req)

Credits: 1-6 Grading Method: Regular, Sat-
Fail

Independent study for masters students in decision and information technologies.

Contact department for information to register for this course.
