**BUSINESS (BUS)**

**BUS 510**
*Strategy & Innovation*

The 21st century business environment has become increasingly volatile, uncertain, complex and ambiguous. Competing and succeeding in such an environment requires new and innovative thinking. In this course you will learn how the global business environment has been transformed over the past few decades, how companies are redefining their purpose and how they are applying innovative thinking to their strategy and business models.

*Lecture: 3 Lab: 0 Credits: 3*

**BUS 532**
*Artificial Intelligence in Business*

This course is designed to provide an introduction to the evolving area of AI, with an emphasis on potential business applications and related managerial insights. Artificial Intelligence (AI) is the science behind systems that can program themselves to classify, predict, and offer solutions based on structured and unstructured data. For millennia, humans have pondered the idea of building intelligent machines. Ever since, AI has had highs and lows, demonstrated successes and unfulfilled potential. Today, AI is empowering people and changing our world. Netflix recommends movies, Amazon recommends popular products, self-driving cars learn to navigate safely around other vehicles without human assistance, and programmed robots distinguish trash from dishes that are to be washed. This course focuses on how AI systems understand, reason, learn and interact; learn from industry’s experience on several AI cases; develop a deeper understanding of machine learning (ML) techniques and the algorithms that power those systems, and propose solutions to real world scenarios leveraging AI methodologies. The course also presents two key opportunities: first, to earn a globally recognized IBM digital badge in AI; second, to develop a high-quality proposal to plan and execute the deployment of an AI application at a student’s future employer.

*Lecture: 0 Lab: 0 Credits: 0*

**BUS 550**
*Business Statistics*

This course covers statistics, optimization, and simulation tools that are critical for managers in enabling their firms to have a competitive advantage. The course covers probability, sampling, estimation, hypothesis testing, linear regression, goodness-of-fit tests, linear optimization models, nonlinear optimization models, and managerial decision-making under uncertainty. The models address problems in finance, marketing, and operations and include applications such as media selection, capital budgeting, portfolio selection, advertising effectiveness, facility location, distribution planning, and production planning. The focus of the course is on using business analytics to build models and using software to aid in decision-making.

*Lecture: 3 Lab: 0 Credits: 3*

**BUS 590**
*Business Strategy Capstone Project*

This is a forward-looking and experiential course that helps students understand how companies could successfully compete in the "next economy" through innovation and integrative problem-solving. It aims to integrate all of the key lessons from the M.B.A., M.S. EMS, and M.S. MAC programs to develop innovative solutions to solve real-world problems that actual companies face. The course is heavily project-based. Cross-disciplinary teams of students will act as management consultants to companies to identify and solve problems taking a holistic and integrative perspective. There will be lectures on various aspects of business strategy, sustainability, systems thinking, execution, innovation, and team effectiveness from faculty members and industry experts. Student teams will present their findings to fellow students, faculty members, and client companies. Prerequisite: Students should have successfully completed all of their respective program core courses.

*Prerequisite(s): MBA 505 with min. grade of C and MBA 513 with min. grade of C and MBA 509 with min. grade of C*

*Lecture: 3 Lab: 0 Credits: 3*

**BUS 592**
*Master of Technological Entrepreneurship Capstone Course*

The BUS 592 Capstone course in the Master of Technological Entrepreneurship program provides students with a hands-on, real world opportunity to complete a project in one of the three following roles: 1. Startup Founder: Bring your startup ideas to your Capstone project. Identify, investigate and/or evaluate the suitability of a product or service to the marketplace. 2. Creative Researcher/Research Commercialization: Apply your talents to investigate and/or evaluate a research-based technology for suitability as a product or service. 3. Corporate Innovator: Make an impact within a business or organization. Work with an existing company to evaluate and/or investigate a product or service opportunity for the company. Students will either build or join a small team to develop a prototype, engage customers and partners, and identify support and/or funding. Students are required to take BUS 592 in every semester of their program to facilitate application of learning to their project.

*Credit: Variable*

**BUS 598**
*Graduate Workplace Immersion*

This course provides graduate students with a supervised, immersive, hands-on experience in a US workplace where they will gain exposure to an industry and practical experience with projects related to their interests. Students will work for a minimum of eight weeks, 32 hours/week. Students will be matched with an organization according to their area of study, related experience, and/or relevant skillset.

*Lecture: 0 Lab: 6 Credits: 3*