

# Professional Studies Information Technology Management (MPIT)

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## **MPIT 5000 Ethics in Info Tech 3 Credits**

The management of information technology is strongly related to the management of people. This course will help students understand how people - their suppliers and their customers, their partners and their competitors, and their superiors and their direct reports - come to have moral opinions on ethical dilemmas. Exploring both rational and affective theories of human morality, it will show how to resolve moral questions, and to make moral arguments. It will examine common ethical scenarios involving technology, as well as how ethics is handled in the business world. Finally, the course will review the ethical issues around Artificial Intelligence which may transform both the technology, and the people, with whom students will work. Throughout the course, students will be introduced to moral issues that technology managers have to recognize and resolve in their careers. In addition to other requirements, students must earn a grade of "B" or higher in the Ethics course.

*Level:* Graduate, Undergraduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

Enrollment is limited to students with a major in Prof Studies Info Tech Mgmt, Prof Studies Info Tech Mgmt, Prof Studies Info Tech Mgmt or Prof Studies Info Tech Mgmt.

Enrollment limited to students in the School of Continuing Studies college.

## **MPIT 5600 Introduction to IT Management 3 Credits**

The course provides a theoretical and practical understanding of modern technology solutions used by businesses/organizations to solve complex business problems, optimize existing processes, innovate, compete, and enter new markets, business transformation. Over the duration of this course, students will work both individually and collaboratively in teams to complete group projects, assignments, design thinking activities, and in class exercises. After the completion of this course students will be able to identify and evaluate the impact of modern technology solutions on businesses, employees, and consumers.

*Level:* Graduate, Undergraduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

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Enrollment limited to students in the School of Continuing Studies college.

## **MPIT 5650 Strategic Plan. Fin. Mgmt 3 Credits**

The course is focused on the annual financial management cycle (Planning, Budgeting, Managing Operations and Annual Reporting) and will integrate best practice approaches such as the Technology Business Management Framework. Students learn how to identify a business need; propose a technical solution; estimate and quantify solution benefits and costs; request funding with a justification based on a financial analysis and return on investment, and perform results measuring analysis. Students will apply the knowledge to real-world examples through business cases and case studies.

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*Grading:* Main Campus (UGrad, Grad)

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Enrollment limited to students in the School of Continuing Studies college.

## **MPIT 5700 Req. Analysis Sys. Design 3 Credits**

This course focuses on the fundamentals of requirements engineering and system architectures, and the relationship of the two areas. It details the requirements activities starting with Organizational goal expression or with a stakeholder need, to stakeholder requirement discovery, through to systems requirements derivation in both agile and traditional methods. The course includes examining the alignment of the system architecture to the enterprise goals to validate the architecture (i.e. building the right system) as well as quality aspects of the architecture (building the system right). The course highlights linkages between early architectural decisions driven by business requirements and concept of operations, and system operational and support costs. The course centers on the hands-on application of class material via a group project that students pursue in small teams.

*Level:* Graduate, Undergraduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

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Enrollment limited to students in the School of Continuing Studies college.

**MPIT 5750 Digital Trans. Tech Strategy 3 Credits**

Digital Transformation is about enabling and managing effective IT modernization/integration in an organization. In this course, students will focus on using a systematic approach to identify, plan and communicate modernization initiatives that leverage technology to improve organizational outcomes, aligning to the mission as well as financial and business goals. You will explore new and emerging technologies that provide opportunities to drive transformation across the enterprise. Areas of study will include introducing complex change in large organizations and the role of IT as an enabler and collaborator of modernization across the organization.

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*Grading:* Main Campus (UGrad, Grad)

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Enrollment limited to students in the School of Continuing Studies college.

**MPIT 5800 Communication for IT Managers 3 Credits**

The Communication for Technology Managers course is designed to expose students to best practices in internal communication to foster organization-wide understanding and buy-in; ensure that employees understand how a technology decision impacts their work; and act upon internal needs as the technology project is implemented. Messaging exercises will focus on effectively communicating to leadership, employees and stakeholders during a technology change/design, implementation rollout, or crisis. Students will understand the technology manager's key role in coordinating communications.

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Enrollment limited to students in the School of Continuing Studies college.

**MPIT 5850 IT Data Governance Strategy 3 Credits**

Corporate governance is crucial to the success of any enterprise as it provides strategic direction and oversight on the company management by the board of directors. Similarly, IT and data governance provide valuable direction and oversight to the organization's IT and data managers regarding the use of IT to meet business objectives and for the proper and secure handling of corporate data assets. In this class we will define and develop the critical elements of effective IT and data governance frameworks and explore the relationship between strategy and governance

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**MPIT 5900 Strategic IT GovResource Mgmt 3 Credits**

This course prepares students to lead technology organizations through strategic planning, financial decision-making, and governance alignment. Through an integrated approach, students will develop the ability to build business cases, oversee project budgeting and ROI evaluation, and implement IT and data governance frameworks that meet compliance, risk, and ethical expectations. Particular attention is given to emerging technologies, such as AI and cloud services, and their implications for governance, accountability, and value creation.

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Enrollment is limited to Graduate level students.

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**MPIT 5950 IT Leadership Communication 3 Credits**

This course provides an integrated introduction to the strategic and operational responsibilities of IT leaders in a digitally transforming enterprise. Students will analyze how IT managers influence innovation, align technology with organizational strategy, and lead teams through disruption. Emphasis is placed on communication as a leadership competency, students will learn to develop executive messaging, manage internal communications, and navigate stakeholder resistance in complex change environments.

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**MPIT 6600 Disruptive Tech Org Change 3 Credits**

This course explores the impact of disruptive technological innovation on organizations and their ability to adapt to change. More precisely, students learn how to detect and anticipate disruptive technologies and their potential impact on organizational culture, processes, and strategies. The course places an emphasis on understanding organizational values, processes, resources, and migration capabilities. Upon completion of the course, students will be able to identify and apply sustainable solutions to accommodate disruptive innovations and capabilities to cope with organizational and industry changes.

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**MPIT 6605 Security Architecture Design 3 Credits**

This course introduces students to fundamental logical hardware, operating system, and software security components, and how to use those components to design, architect, and evaluate secure computer systems. Understanding these fundamental issues is critical to effective information security management. The course is divided into three sections. The first section covers the hardware and software required to have a secure computer system. The second section covers the 9 logical models required to keep the system secure. The third section covers evaluation models that quantify system security.

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**MPIT 6610 Info Sec. Laws and Compliance 3 Credits**

This course introduces students to privacy laws, regulations, and industry guidelines with significant security and privacy impact and requirements. The course primarily examines laws and regulations from the United States, but it also includes some coverage of international laws. The course is divided into four sections. First, students are exposed to broadly-applicable laws and regulations that address information security. Second, students receive an introduction to industry-specific guidelines and requirements (FISMA, NERC, HIPAA, HITECH, PSQIA3 , etc.). Third, students examine key state laws and regulations that impact information security management (such as relevant laws in California, Massachusetts, and New York). Finally, students scrutinize other countries' laws and regulations related to information security and privacy (such as laws in Canada, Mexico, and the European Union) and international standards such as ISO 27001 and 27032.

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**MPIT 6615 Comm Strat for Info Sec Profs 3 Credits**

This course addresses several leadership considerations, including how to navigate culture and style practices within organizations. Students learn how to deploy continual reinforcement in their communications strategy, especially when addressing the issues of risk and change. The course examines multiple communication approaches as well as tools and techniques that are appropriate for different audiences. Finally, students learn how to plan and implement a workforce cybersecurity awareness communications campaign.

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**MPIT 6620 Cybersec Governance Frmwrk 3 Credits**

This course prepares students to develop governance frameworks for information security management. Students learn how to develop holistic and integrated frameworks that include: (1) strategic planning; (2) security architecture policy and standards; (3) cultural and organizational awareness, training, and change management principles; (4) security operations; and (5) compliance and audit support elements. Students will study existing frameworks that are recognized as best practice in the public and private sectors (federal government, critical infrastructure, ISO 27000 for commercial, etc.).

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**MPIT 6650 Bus Intell Big Data Analysis 3 Credits**

Today data is everywhere. The most competitive commercial companies are harnessing it to formulate their go-to-market strategies, make course corrections and outthink the competition. Governments are using data to develop solutions to social issues, recruit talent, and even to prevent terrorist attacks. This course explores how government agencies, commercial companies and nonprofits are using Business Intelligence (BI) and Big Data Analytics to achieve their strategic goals and objectives. During the course students are introduced to the concepts through real-world demonstrations of BI and Big Data Analytics solutions.

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**MPIT 6656 Cloud Computing AI Tech Strat 3 Credits**

This course examines the strategic, architectural, and operational foundations of cloud computing with a focus on enabling industrial scale AI. This class leverages a technology strategy approach to define the future state enterprise, and to create a roadmap to achieve it. The strategy methods are based on proven, leading consultancy models.

Through a combination of readings, case studies, hands-on lab exercises, and an applied strategic transformation project, students will assess real-world cloud adoption scenarios across industries. These activities will develop the ability to align enterprise cloud decisions with mission objectives, financial constraints, innovation goals, and long-term technology strategy.

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*Grading:* Main Campus (UGrad, Grad)

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Enrollment is limited to Graduate level students.

**MPIT 6661 Info Assurance Risk Mgmt 3 Credits**

This course provides an overview of enterprise security, privacy, and information security assessment and management, and cybersecurity. This course concentrates on tangible and intangible costs and examines concepts of information assurance and security risk assessment. Students learn how to assess information security risks and develop solutions. Students also learn traditional risk treatment options (accept, avoid, remediate/reduce, transfer) and apply them to IA/cyber risk management. Topics covered include social engineering, risk assessment, recovery and response, enterprise security, and formal techniques and policies.

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**MPIT 6700 Creativity and Generative AI 3 Credits**

This year's winner, Rie Kudan, of Japan's Akutagawa Prize, the nation's most prestigious literary honor, drew headlines worldwide when she admitted that she used ChatGPT extensively during her writing process: to generate ideas for character and plot development, and occasionally to write the actual sentences that comprised the critically acclaimed novel. Creatives worldwide are currently grappling with the emergence of generative AI tools — some decrying the use of these models as cheating, and others, like Kudan, arguing that they are a means to unlock their artistic potential. In this course, we face these issues head-on, building an understanding of what is possible with generative AI, and how people can best leverage them in artistic domains.

This course provides an overview of generative AI, defining its role and capabilities in creating novel content. The course focuses on the practical applications of generative AI in various creative domains. Students will explore how AI is used to generate visual art, create music, design products, and even write creative literature. The course will showcase a range of case studies and examples where generative AI has been successfully implemented, offering insights into its transformative potential. Students will also engage with the creative process behind generative AI. This involves understanding the human-AI collaboration in creative work, and exploring how artists and designers can guide AI to enhance creativity rather than replace it. Discussions will include the ethical considerations and implications of AI-generated content, particularly regarding originality, copyright, and authorship. We will also examine issues of bias and the future of work as generative AI reshapes the global market for creative content. Students will be introduced to careers in the intersection of AI and creative fields, hearing from guest speakers on different strategies for participating in and benefiting from the generative AI transformation. They will learn the fundamentals of how these models are trained and how they produce creative outputs. Then, they will build on this knowledge to see firsthand where AI shines, where it reaches its current limitations, and how they can use AI to reach their own creative goals. Upon completion of the course, students will have AI-assisted artifacts of their own design, as well as frameworks and processes that they can apply to new technologies still to come.

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*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

Enrollment is limited to Graduate level students.

**MPIT 6725 Info Management for Comp Intel 3 Credits**

This course examines how organizations can use information to create competitive advantage. Students will learn how organizations can become data driven by having the proper elements in place, such as strategy, data governance, and leadership. They will also gain knowledge on security and privacy requirements for information and how to monetize information for competitive advantage. Finally, the course covers best practices for sharing information within organizations and among organizations, and how to convert tacit knowledge to explicit knowledge.

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**MPIT 6730 Competitive Intelligence Organ 3 Credits**

Competitive intelligence analysis is the process that agencies and organizations use to assess their institutional strengths and weaknesses relative to peer organizations. Students in this course gain insight into how competitive intelligence informs and supports an organization's ongoing strategy. Throughout the course, students examine case studies and the history of competitive analysis in both government and industry. By the end of this course, students will be able to gather organizational data, interpret relevant data, and evaluate and recommend organizational strategies based on their research. The course places a strong emphasis on the development and application of data analysis and presentation skills.

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Enrollment is limited to Graduate level students.

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**MPIT 6735 Global Competitive Intelligenc 3 Credits**

This course examines Competitive Intelligence (CI) as the collection and analysis of information to anticipate competitive activity, see past market disruptions, and dispassionately interpret events in a global perspective. In addition, students will develop techniques to develop analysis, which provides insight into marketplace dynamics and challenges in a structured, disciplined, and ethical manner using published and non-published sources.

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*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

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Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

**MPIT 6740 Lean Agile w/Scrum Kanban 3 Credits**

This course provides students with a solid foundation and a good understanding of practicing Agile with Scrum and Kanban. Scrum is a framework for designing, developing, and delivering products, services, and/or solutions of the highest value incrementally. Scrum is also known as a popular agile method in the computer software industry for addressing unknown and complex requirements iteratively and incrementally.. Scrum implementations require the use of self-organized teams who are flexible individuals willing to adapt quickly to change. Students will learn about the rules of the game specific to Scrum events (the sprint, sprint planning, daily Scrum, sprint review, and sprint retrospective), Scrum artifacts (e.g. product backlog, sprint backlog, and increment), and the importance of the definition of done. Kanban is another lean framework for developing and delivering products and services by balancing demands with available capacity, and by improving the handling of system-level bottlenecks. Students will also learn essential lean principles and discover how to use a Kanban board to help them visualize workflow and prioritize work items more effectively.

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Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.



**MPIT 6750 Information Security 3 Credits**

This course provides theoretical and applied foundations of information security and assurance. Students study various types of cyber-crime and vulnerabilities of government computer systems and information networks. Students learn about strategies for the protection of information and computer systems and how to mitigate and respond to breaches of those systems.

*Level:* Graduate, Undergraduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

**MPIT 6755 Agile Frameworks for Lean Ent 3 Credits**

Agile organizations quickly sense and adapt to external and internal changes to deliver relevant results in a productive and cost-effective manner. This course explores merging life cycle approaches, which lead to greater organizational agility, and provides an in-depth examination and evaluation of Lean-Agile principles and values and the drivers behind becoming a more agile organization. Students learn how organizations can achieve agility at scale by funding ecosystems of teams that deliver large initiatives, allowing decentralized financial decision making within the portfolio, and continuously prioritizing their backlog of activities within each agile project. Learning objectives for this course include the ability to achieve true end-to-end business agility by utilizing industry standard agile frameworks (such as Scrum, Kanban, and SAFe); establishing the strategic themes that guide an organization's strategy and investments; determining and funding the relevant value streams; defining and prioritizing cross-cutting portfolio backlog epics; and monitoring the performance of the portfolios using applicable Lean portfolio, program, and team metrics. Students learn how to link an organizational strategy into relatively small investment increments called epics, study the breakup of epics into features that can be delivered by program teams, and explore the decomposition of features into user stories delivered by single teams in individual sprints. This course also explores organizational factors that impact the use of agile approaches, such as culture, readiness, business practices, and the role of the PMO.

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*Grading:* Main Campus (UGrad, Grad)

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Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

**MPIT 6760 DevOps Essentials 3 Credits**

DevOps, as a movement and methodology since the mid-2000s, is still transforming the way value is delivered by information technology (IT) organizations. Deriving from practices supporting modern technology management methodologies such as Agile, enterprise DevOps adoption has been demonstrated to create value by reducing the amount of unnecessary rework, improve the quality, speed and tempo of production deployments, create feature reinvestment opportunities, and reduce operational downtime significantly. This course in DevOps is an exploration in the practice of operations and development engineers participating together in the entire service lifecycle, from design through the development process to production support.

*Level:* Graduate, Undergraduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

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Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

**MPIT 6775 Mobile Wireless Data 3 Credits**

This course explores the latest technologies, trends, and management approaches for mobile and wireless devices in organizational settings, examining their impact on business operations, security, and productivity. Topics covered include mobile device management (MDM) and enterprise mobility management (EMM), wireless network infrastructure and protocols (Wi-Fi, 5G), mobile security threats and countermeasures (malware, encryption), deployment considerations (e.g. bring-your-own-device (BYOD) policies), mobile application development and deployment, and the integration of Internet of Things (IoT) devices with mobile and wireless networks.

*Level:* Graduate

*Grading:* Main Campus (UGrad, Grad)

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Enrollment is limited to Graduate level students.

**MPIT 6780 AI User Experience 3 Credits**

This course explores the intersection of artificial intelligence and user experience design, focusing on creating intuitive, ethical, and user-centered AI systems. Students will examine how AI transforms digital interactions, design workflows, and decision-making processes, with emphasis on human-AI collaboration, accessibility, and transparency. Through hands-on projects and case studies, students will learn to design and evaluate AI-driven products that balance technical innovation with user needs, fostering trust and usability in complex systems.

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*Grading:* Main Campus (UGrad, Grad)

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Enrollment is limited to Graduate level students.

**MPIT 6785 AI Governance and Compliance 3 Credits**

This course explores the fundamental principles of Artificial Intelligence (AI), focusing on critical aspects like the explainability and transparency of AI decision-making processes. Students will examine the security risks and privacy concerns associated with AI, understanding the technical hurdles in ensuring strict governance. The course guides students through the complexity of regulatory and legal frameworks that are shaping the incorporation of AI across different industries. A significant part of the course is dedicated to learning about established standards and best practices in the field, providing the knowledge necessary to develop and implement effective AI governance models. The course emphasizes the importance of considering both global and regional perspectives, highlighting the varied strategies and policies in AI deployment worldwide.

*Level:* Graduate

*Grading:* Main Campus (UGrad, Grad)

*Course registration restrictions:*

Enrollment is limited to Graduate level students.

**MPIT 6790 Innovation Mgmt AI Strategy 3 Credits**

This course examines how to combine advanced AI technology management with effective business strategies. It focuses on building an innovative mindset in organizations and includes strategic planning as a key part. Students will learn to align AI projects with company goals, covering areas like market study, resources allocation, risks management. The course integrates fundamental principles of Lean and Agile project management. This includes understanding how to apply Lean methodologies for efficient workflow and resource optimization, and Agile practices for adaptive planning, evolutionary development, and flexible responses to change.

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**MPIT 6800 AI Leadership Mrkt Analysis 3 Credits**

This comprehensive course explores the rapidly evolving AI-driven business landscape. It combines essential leadership strategies with in-depth market analysis to prepare students for the challenges and opportunities presented by technological advancements. The course covers the impact of AI on leadership, emphasizing adaptable leadership styles for tech environments. It teaches managing diverse workforces, leading digital transformation, and developing problem-solving and decision-making skills for the tech industry. It also includes analyzing AI market trends, interpreting industry reports, and conducting competitive analysis to understand strategies and dynamics of different market players.

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*Course registration restrictions:*

Enrollment is limited to Graduate level students.

**MPIT 6805 Developing AI Solutions 3 Credits**

This course offers a comprehensive overview of agile digital solution development, with a special focus on Artificial Intelligence (AI) applications. It delves into Agile, Lean, and design thinking methodologies, underscoring the importance of developing AI solutions that deliver exceptional user experience (UX) and user interface (UI). Students will actively engage in the entire process of AI solution development, from conducting targeted user and market research specific to AI, to designing AI-driven user experiences. They will also learn to prototype AI components, create intuitive AI-powered interfaces, and enhance user interactions using AI. This hands-on approach ensures that students not only understand theoretical frameworks but also acquire practical skills in crafting user-centric AI solutions.

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**MPIT 6850 Agile Project Management Funda 3 Credits**

The course provides students with a comprehensive understanding of Agile Project Management Fundamentals. The course not only teaches students how to manage projects with an adaptive approach but also allows students to understand the differences and similarities between agile and traditional project management. Throughout the course, students acquire the essential knowledge on agile values, principles, practices, tools, and benefits of applying a lean-agile approach to Project Management. The course also provides students with the tools necessary to select an adequate approach to project management while considering the degree of uncertainty and complexity. Through simulations and demonstrations of agile concepts, students gain experiential learning and acquire essential Agile PM skills to operate in an agile setting. By the end of the course, students can apply insights on how to blend linear, incremental, and iterative approaches in a traditional, agile, or hybrid environment.

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**MPIT 7990 Capstone 3 Credits**

The Capstone Course is the culmination of the student's academic and professional experience in the Technology Management program. Over the course of the semester, students will be asked to apply the knowledge gained during the program to a project. With a focus on technology for social good, students will incorporate the skills necessary for analyzing key issues, thinking creatively, and making sound decisions in order to develop and execute plans. Projects will address global and local challenges. During the semester in which students are enrolled in the Capstone Course, it is strongly recommended that they only take one additional course along with it. Students must earn a grade of B or better in the Capstone Course in order to graduate.

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