# IS - Information Technology Management Graduate Program

Information Technology Management Program *(*https://www.uwlax.edu/academics/grad/information-technology-management/*)*
Master's Information Technology Management *(*https://uwex.wisconsin.edu/itmanagement/*)*
*Director: Peter Haried*
*241 Wing Technology Center; 608.785.8103*
*Email:* pharied@uwlax.edu

The Master of Science in Information Technology Management Program is a fully **online** curriculum consisting of 31 credits (10 three-credit courses and a one - credit capstone preparation course). The degree program is offered jointly by UW-La Crosse, UW-Oshkosh, UW-Parkside, UW-Stevens Point, UW-Stout, and UW-Superior. The program represents a multidisciplinary curriculum that balances real-world applications and practices relevant to the current field and draws primarily from business, information systems, information technology, cybersecurity, data science, communications and project management. Graduates of the program will gain the knowledge and skills required to manage information technology functions across a wide range of industries. The required capstone course, which represents the culminating experience in the program, will provide students with the opportunity to apply skills acquired from coursework through a project-based experience that addresses a problem, need, or concern in an IT setting.

## Certificates

The Information Technology Management Program also offers three certificates and the option to complete the master's degree. The certificates are organized into three IT management topics:

- IT Leadership
- Enterprise Infrastructure
- IT Operations

Each certificate can be earned independently. Completing the master's degree in total would require completing all three certificates, plus the pre - capstone and capstone courses.

## Information Technology Management credit for prior learning policy

The Department of Information Systems awards credit for prior learning in ITM 730 Agile and Traditional IT Project Management (3 cr.) to any current degree or certificate-seeking UWL student who presents a valid and current certification for the course in which credit is desired - see certifications listed below. In each instance, credit is awarded with a grade of Satisfactory ("S"), which is not included in a student's grade point average.

Contact the College of Business Administration Academic Services Director (cbadeans@uwlax.edu) to begin the process. There is no fee for this evaluation.

**Qualifications**

For ITM 730 Agile and Traditional IT Project Management (3 cr.), student must have a valid, **current** certification in one of the following:

- Project Management Institute (PMI) Project Management Professional (PMP) certification.
- Other certifications may also be considered on a case-by-case basis but must first be reviewed and approved by the student's program director.

## Program length

The Master of Science (M.S.) in Information Technology Management Program is typically a two-year program. The program length is based on how long the required UWL coursework would take to complete for a part - time student taking six credits a term, who does not need to complete any prerequisite coursework. Program length may be extended if students take fewer than six credits per term or due to the requirements of an individual student's plan of coursework, research or capstone project.

The graduate certificate programs are typically one - year programs. The program length is based on how long the required UWL coursework would take to complete for a part - time student, taking one course per term. Program length may be shortened if students take more than one course in a term.

## Graduate degree

- Information technology management - MS (https://catalog.uwlax.edu/graduate/programrequirements/informationtechnology/information-technology-management-ms/)

## Certificates

- Enterprise infrastructure certificate (https://catalog.uwlax.edu/graduate/programrequirements/informationtechnology/enterprise-infrastructure-certificate/)
- IT leadership certificate (https://catalog.uwlax.edu/graduate/programrequirements/informationtechnology/it-leadership-certificate/)
- IT operations certificate (https://catalog.uwlax.edu/graduate/programrequirements/informationtechnology/it-operations-certificate/)

## Courses

ITM 700 Cr.3
**Communications for IT Professionals**
This course focuses on developing communication skills for IT professionals. Students learn how to deliver effective presentations, conduct crucial conversations with stakeholders, and develop verbal and nonverbal communication skills emphasizing cultural sensitivity, diversity, and ethics. Students also conduct relevant research and critically evaluate information to make informed evidence-based decisions. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 705 Cr.3
**Leading the IT Function**
This course focuses on the differences between and application of management and leadership theories in an IT environment. Utilizing an array of assessment activities, students identify and understand one's own personal assets and liabilities to become an effective leader and agent of change in a complex adaptive system. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 710 Cr.3
**Finance for IT Managers**
This course frames financial decisions within general and project accounting principles. Topics include: pro forma financial statements, time value of money, cash flows and equivalence, depreciation, net present value, rate of return, and ratio analysis. Students prepare budgets that prioritize projects within constraints, address uncertainty and intangibles, and integrate with project scheduling. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 715 Cr.3
**Data Science**
This course examines key data science concepts, methods, and processes. It addresses issues for developing, managing and supporting data-driven decision-making in the organization and provides knowledge and tools for incorporating data science into IT project workflows. Topics include, but are not limited to, data analytics, data warehousing, machine learning, and artificial intelligence. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 720 Cr.3
**Cloud Computing and Enterprise Applications**
Students learn to leverage cloud services to streamline computing resources, deploy enterprise applications, improve user access and system reliability, and utilize advanced computing capabilities. Foundation concepts include: virtualization, multi-tenant architecture, and software defined networking. This course examines the full range of services available to organizations along with deployment strategies, evaluation criteria, economic justification, and manageability. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 725 Cr.3
**Enterprise Security**
In this course students explore the technical, administrative, and physical aspects of IT security. Students investigate various threats within IT and fraud and apply information classification to the design of information, network and physical security. Students evaluate the business processes of risk, business continuity, audit, and the risk within software development. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 730 Cr.3
**Agile and Traditional IT Project Management**
This course examines project management concepts as applied to IT projects and covers traditional Project Management Book of Knowledge (PMBOK) techniques such as project identification, selection, procurement, and cost/schedule preparation and monitoring. Students are introduced to agile IT project management concepts including Scrum and Extreme Programming. This course requires students to apply these concepts to group projects. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 735 Cr.3
**Business Analysis for Effective IT Organizations**
This course focuses on the importance, role, and techniques of the business analysis function in the modern IT organization. This course is organized around the six knowledge areas and associated techniques of the Business Analysis Body of Knowledge (BABOK) specified by the International Institute of Business Analysis. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 740 Cr.3
**IT Operations**
This course explores best practices and techniques for ensuring the smooth functioning of the IT infrastructure and operational environments to support development and deployment of applications and services within the organization. Coverage includes network infrastructure; servers and devices; computer operations; service management; facilities; help desk services, DevOps, and process automation. Prerequisite: admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 754 Cr.1
**Capstone Preparation**
In this course students select their capstone project, create a plan, define deliverables, secure approval and complete setup of their development environment. Students review concepts necessary for completion of the capstone including Agile project management, systems analysis and communicating with technical and non-technical audiences. Additional topics may be included. Prerequisite: ITM 730 or concurrent enrollment; admission to Information Technology Management Program. Consent of department. Offered Fall, Spring, Summer.

ITM 755 Cr.3
**Capstone**
In this course, students complete the projects approved in the Capstone Preparation course. This course includes the management, development and delivery of an information technology project to a client or employer, including regular communication of status to both technical and non-technical audiences. Prerequisite: ITM 754; admission to Information Technology Management Program. Course to be taken in final semester. Consent of department. Offered Fall, Spring, Summer.