DEPARTMENT OF INFORMATION SYSTEMS & SUPPLY CHAIN MANAGEMENT

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Mission

The John B. and Lillian E. Neff College of Business and Innovation provides innovative and relevant learning experiences and engages in high-quality research and teaching to prepare students to become life-long, ethical business and academic leaders who are prepared for global challenges.

Accreditations

The Master of Business Administration (M.B.A.), Master of Applied Business Analytics, Master of Science in Applied Business Analytics, and the Ph.D. in Manufacturing and Technology Management are accredited by Association to Advance Collegiate Schools of Business (AASCB).

Information, Operations and Technology Management Department offers programs in Operations and Supply Chain Management, Information Systems, Applied Business Analytics, and Manufacturing and Technology Management. Faculty members hold terminal degrees in information systems, operations and supply chain management, management science, statistics and industrial engineering. The department also is home to many lecturers, some with terminal degrees. It is also home to Distinguished University lecturer, Distinguished University professor and many faculty members with significant research contributions.

The department hosts two student chapters of national associations (UT-APICS (society serving Operations and supply chain majors) and AITP (Association for information Technology professionals)). The associations are very active hosting monthly or weekly meetings with professional presentations, factory visits, and other programs.

The department has fielded teams for case competitions (General Motors-Wayne State supply chain case competition in October and Ball State University Information Systems case competition in April) every year since their inceptions and has won awards in every Ball State competition and one GM-Wayne State competition.

Degrees Offered

MBA in Operations and supply chain management (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/mba-operations-management/)

Information, Operations and Technology Management Department offers the MBA in Operations and Supply Chain Management. As all MBA programs, it has a large core with three courses specializing in the Operations and Supply Chain Management. The three specialization courses along with the required core course and a pre-requisite course in analysis of manufacturing and service systems gives a good overview and an in-depth coverage on production planning and quality management. This program is ranked by Eduniversal as one of the best 100 programs in the country. Supply chain management research output of the department faculty was ranked well for supply chain research (SCM Journal List).

MBA in Information Systems - STEMM (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/mba-information-systems/)

Information, Operations and Technology Management Department offers MBA in Information Systems. As all MBA programs, it has a large core with four required elective courses to earn a specialization in Information systems. The recently introduced fundamentals of Information systems course acts as bridge for students who have a different undergraduate specialization. Students with undergraduate specialization in information systems or computer science are waived out of this course. The program gives opportunity to learn ERP with special emphasis on configuration using SAP. Recent addition of courses in big data, data mining and business analytics makes this an attractive major.

MABA (Applied Business Analytics) - STEMM (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/ms-business-analytics/)

The goal of this Master of Applied Business Analytics (MABA) program is to address the growing demand for analytical capabilities in solving business problems that are demanded by a variety of employers within the United States. Research results from public and private sectors show that there are substantially fewer experts in the field of business analytics than there are opportunities for them.

This program prepares students not only to be able to analyze and interpret data, but also to translate this into effective decision-making for complex business problems. The program is a unique combination of one functional area of business and a breadth of courses in business analytics capped by an internship at your place of work or in another organization. Another option is to cap the program with a 6-credit hour Master's thesis in the Neff College of Business and Innovation.

The Master of Applied Business Analytics degree is granted to students who satisfactorily complete a minimum of 30 semester hours at the 6000- level in the College of Business and Innovation meeting the program requirements. In addition, most non-business students and even some business students may need up to 12 credit hours of 5000-level pre-requisites.

Ph.D. Manufacturing and Technology Management - STEMM (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/phd-manufacturing-technology-management/)

The basic philosophy underlying the doctoral program is that researchers in manufacturing and technology management require a careful and creative mix of functional management specialties, economics, technology, supply chain management, manufacturing, commercialization, and information technologies. Regardless of track, students must become experts in applying analytical tools such as statistics, optimization and research methodology. Therefore, the program is designed to provide students with abilities and skills to integrate and synthesize these diverse yet important related areas.

Graduate Certificate in Business Analytics - STEMM (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/graduate-certificate-business-analytics/)

Graduate Certificate in Information Systems ERP/SAP - STEMM (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/graduate-certificate-informastion-systems-erp-sap/)

Graduate Certificate in Operations and Supply Chain Management (https://catalog.utoledo.edu/graduate/business-innovation/departments-schools/department-information-systems-and-supply-chain-management/graduate-certificate-operations-and-supply-chain-management/)

Code	Title	Hours
BUAD 6600	Supply Chain Management (MBA Core Course)	3
BUAD 6800	Information Technology And E-Business (MBA Core Course)	3
OSCM 5510	Business Statistics With Computer Applications (Common Body of Knowledge)	3
OSCM 5520	Analysis of Manufacturing and Service Systems (Common Body of Knowledge) Prerequisite OSCM 5510	3
OSCM 6250	Essentials of Business Analytics	3
OSCM 6270	Simulation and Waiting Lines	3
OSCM 6350	Prescriptive Analytics	3
OSCM 6550	Business Analytics and Cases	3
OSCM 6680	Quality Management and Six Sigma	3
OSCM 6690	Supply Chain Resources Management	3
OSCM 6780	ERP Systems Process Management	3
OSCM 6950	Capstone Project	3
OSCM 6960	Masters Thesis	1-6
OSCM 6980	Special Topics in Operations and Supply Chain Management	3
OSCM 7520	Analysis of Manufacturing and Service Systems	3
OSCM 8270	Simulation and Waiting Lines	3
OSCM 8680	Quality Management and Six Sigma	3
OSCM 8690	Supply Chain Resources Management	3
INFS 6050	Information Systems Fundamentals	3
INFS 6150	Business Intelligence Management	3
INFS 6450	Data Mining	3
INFS 6460	Management Information Systems	3
INFS 6560	Business Systems Analysis and Design	3
INFS 6610	Information Integration and Data Management	3
INFS 6710	Management of Information Systems Security	3
INFS 6750	Research In Information Systems, Operations Management Or Decision Sciences	1-3
INFS 6780	ERP Systems Process Management	3
INFS 6790	ERP Systems Configuration and Integration	3
INFS 6810	Network Communications	3
INFS 6930	Contemporary Topics Seminar	3
INFS 8150	Business Intelligence Management	3
INFS 8460	Management Information Systems	3
INFS 8480	Information Systems Issues In Manufacturing	4
INFS 8560	Systems Analysis and Design	3
INFS 8710	Management of Information Systems Security	3
INFS 8760	IS Research Seminar I	3
INFS 8770	IS Research Seminar II	3
INFS 8930	Contemporary Topics Seminar-Outsourcing	3
INFS 8990	Integrative Seminar in IT	3
MFGM 8480	Management of Technology	3
MFGM 8490	Supply Chain and E-Business Issues in Manufacturing	3
MFGM 8510	Supply Chain and Technology Management Analytics	3
MFGM 8630	Management Science	3
MFGM 8640	Advanced Management Science	3
MFGM 8650	Stochastic Modeling	3
MFGM 8660	Qualitative Research Methodology	3
MFGM 8670	Special Topics in Research Methods	3
MFGM 8810	Seminar/Colloqkuia	1
MFGM 8840	Manufacturing Strategy	4
MFGM 8850	Readings And Research In Manufacturing Management	1-12
MFGM 8860	Advanced Statistics	3
MFGM 8870	Seminar in Statistics/ Research Method	3
MFGM 8880	Research Methods-Theory Bldg	3
MFGM 8890	Advanced Manufacturing Systems	3
MFGM 8900	Field Research	1-8

MFGM 8960	Dissertation	1-8
MFGM 8980	Special Topics Seminar	3