INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

Program Information

The Department of Information Systems & Operations Management offers graduate courses leading to the Master of Science in Information Systems and Operations Management (M.S.ISOM); the Ph.D. degree in Business Administration; and a concentration in the Master of Business Administration (M.B.A.) program. Minimum requirements for these degrees are available in the Graduate Degrees (http://gradcatalog.ufl.edu/graduate/degrees/) section of this catalog.

Master of Science: The M.S.ISOM program provides computing, analytical, and application skills to be used in a business setting. The primary areas of emphasis in the M.S.ISOM program are business intelligence and analytics, information systems/information technology, and supply chain management. Requirements span traditional academic disciplines to produce a multiple-discipline focus. Typical positions for graduates include decision support specialist, information systems specialist, systems analyst, and logistic support specialist.

For a student with a bachelor's degree in business, the M.S.ISOM non-thesis on-campus program consists of a minimum of 36 credit hours, normally requiring a minimum of three semesters of study, not including summer. For students without a bachelor's degree in business, the M.S.ISOM non-thesis on-campus program consists of a minimum of 40 credit hours, normally requiring a minimum of four semesters of study, not including summer.

All M.S.ISOM candidates must complete 26 credits of core coursework:

Code	Title	Credits
GEB 5212	Professional Writing in Business	1-3
GEB 5215	Professional Communication in Business	1-3
ISM 6128	Advanced Business Systems Design and Development I	2
ISM 6129	Advanced Business Systems Design and Development II	2
ISM 6215	Business Database Systems I	2
ISM 6222	Business Telecom Strategy and Applications I	2
ISM 6223	Business Telecom Strategy and Applications II	2
ISM 6257	Intermediate Business Programming	2
ISM 6258	Advanced Business Programming	2
ISM 6485	Electronic Commerce and Logistics	2
MAN 6581	Project Management	2
QMB 6358	Statistical Analysis for Managerial Decisions I	2
QMB 6755	Managerial Quantitative Analysis I	2
QMB 6756	Managerial Quantitative Analysis II	2

All M.S.ISOM candidates must also complete 6 credits of track coursework for the information technology, supply chain management, or business intelligence and analytics track:

Code	Title	Credits
Information Technology Track		
ISM 6216	Business Database Systems II	2
ISM 6236	Business Objects I	2
ISM 6259	Business Programming	2
Supply Chain Management Track		
MAN 6511	Contemporary Issues in Supply Chain Analytics	2
MAN 6528	Principles of Logistics/Transportation Systems	2
MAN 6573	Purchasing and Materials Management	2
Business Intelligence and Analytics Track		
ISM 6216	Business Database Systems II	2
ISM 6405	Business Intelligence	2
ISM 6423	Data Analysis for Decision Support	2

These required courses total 32 credit hours. In addition, each M.S.ISOM student with an undergraduate major or minor in business must take a minimum of 4 additional hours of approved graduate business electives for a total of 36 credit hours required for the M.S.ISOM degree. For students without an undergraduate business degree or minor, instead of graduate business electives, they must complete four of the following core business courses:

Code	Title	Credits
ACG 5005	Financial Accounting	2
ACG 5075	Managerial Accounting	2
ECP 5702	Managerial Economics	2
FIN 5437	Finance I: Asset Valuation, Risk, and Return	2
FIN 5439	Finance II: Capital Structure and Risk Management Issues	2
MAN 5246	Organizational Behavior	2
MAR 5806	Problems and Methods in Marketing Management	2

Bachelor/Master of Science: The Department also offers a combination bachelor's/master's degree program. This program allows qualified students to earn both the bachelor's and master's degrees, using 12 to 16 credit hours of graduate-level courses for both degrees.

For more information, please see our website: http://warrington.ufl.edu/graduate/academics/ms-isom/combined/.

Degrees Offered

Degrees Offered With a Major in Information Systems and Operations Management

- Master of Science in Information Systems and Operations Management
    - without a concentration
    - concentration in Business Analytics
    - concentration in Data Science
    - concentration in Information Technology
    - concentration in Supply Chain Management

Requirements for these degrees are given in the Graduate Degrees (http://gradcatalog.ufl.edu/graduate/degrees/) section of this catalog.

Courses

Information Systems and Operations Management Departmental Courses

Code	Title	Credits
ISM 5021	Information Systems in Organizations	3
ISM 6022	Management Information Systems	2

ISM 6128	Advanced Business Systems Design and Development I	2
ISM 6129	Advanced Business Systems Design and Development II	2
ISM 6215	Business Database Systems I	2
ISM 6216	Business Database Systems II	2
ISM 6222	Business Telecom Strategy and Applications I	2
ISM 6223	Business Telecom Strategy and Applications II	2
ISM 6224	Business Telecom Strategy and Applications III	2
ISM 6226	Business Telecom Strategy and Applications	3
ISM 6236	Business Objects I	2
ISM 6239	Business Objects II	2
ISM 6251	Programming for Business Analytics	2
ISM 6257	Intermediate Business Programming	2
ISM 6258	Advanced Business Programming	2
ISM 6259	Business Programming	2
ISM 6405	Business Intelligence	2
ISM 6413	Introduction to Python	2
ISM 6423	Data Analysis for Decision Support	2
ISM 6485	Electronic Commerce and Logistics	2
ISM 6486	eCommerce Technologies	2
ISM 6487	Risks and Controls in eCommerce	2
ISM 6562	Business Data Presentation and Visualization	2
ISM 6942	Electronic Commerce Practicum	2
MAN 5501	Management	3
MAN 5502	Production and Operations Management	2
MAN 6508	Management of Service Operations	2
MAN 6511	Contemporary Issues in Supply Chain Analytics	2
MAN 6528	Principles of Logistics/Transportation Systems	2
MAN 6573	Purchasing and Materials Management	2
MAN 6575	Purchasing and Supplier Relationship Management	3
MAN 6581	Project Management	2
MAN 6598	Logistics and Distribution Management	3
MAN 6617	International Operations/Logistics	2
MAN 6619	International Logistics	3
QMB 5303	Managerial Statistics	3
QMB 5304	Introduction to Managerial Statistics	2
QMB 5305	Advanced Managerial Statistics	2
QMB 6317	Artificial Intelligence Methods in Business	2
QMB 6358	Statistical Analysis for Managerial Decisions I	2
QMB 6359	Statistical Analysis for Managerial Decisions II	2
QMB 6616	Business Process Analysis	3
QMB 6693	Quality Management and Control Systems	2
QMB 6755	Managerial Quantitative Analysis I	2
QMB 6756	Managerial Quantitative Analysis II	2
QMB 6845	Supply Chain Analytics: Gaming the Supply Chain	2
QMB 6905	Individual Work in Information Systems and Operations Management	1-5
QMB 6910	Supervised Research	1-5
QMB 6930	Special Topics in Information Systems and Operations Management	1-4
QMB 6938	Analytics Processes for Business – Bootcamp	1
QMB 6940	Supervised Teaching	1-5
QMB 6941	Internship	1-4
QMB 6942	Analytics Projects Practicum 1	1
QMB 6943	Analytics Practicum 2	1
QMB 6944	Analytics Practicum 3	1
QMB 6945	ISOM Department Business Practicum	2
QMB 6957	International Studies in Quantitative Methods	1-4
QMB 6971	Research for Master's Thesis	1-15
QMB 7565	Stat Research Methods	3
QMB 7931	Special Topics in Information Systems and Operations Management	1-4
QMB 7933	Seminar in Information Systems and Operations Management	1-4
QMB 7979	Advanced Research	1-12
QMB 7980	Research for Doctoral Dissertation	1-15

Warrington College of Business Courses

Code	Title	Credits
BTE 7171	Preparing to Teach in Business	2
GEB 5212	Professional Writing in Business	1-3
GEB 5215	Professional Communication in Business	1-3
GEB 5929	Foundations Review	1-3
GEB 6229	Professional Communication for Accountants	2
GEB 6365	International Business	3
GEB 6905	Individual Work	1-4
GEB 6930	Special Topics	1-3
GEB 6941	Internship	1-4
GEB 6957	International Studies in Business	1-4

Student Learning Outcomes

Information systems & Operations management (MS)

SLO 1   Knowledge
Interpret and explain elements of economics, finance, accounting, marketing, operations management, organizational behavior, business law, information technology, business statistics, and social responsibility.

SLO 2   Skills
Specify and implement a framework for identifying a business problem and develop alternative solutions and a set of evaluation criteria.

SLO 3   Skills
Assess the outcomes of a course of action and make appropriate adjustments.

SLO 4   Skills
Solve intricate problems by applying expanded knowledge of ever evolving technologies, processes, and technical skills.

SLO 5   Skills
Critically assess the impact of business decisions on stakeholders.

SLO 6   Professional Behavior
Write business documents clearly, concisely, and analytically.

SLO 7   Professional Behavior
Speak in groups and in public clearly, concisely, and analytically, with appropriate use of visual aids