

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (<https://one.ufl.edu/soc/>)

Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.

Department Information

The primary mission of the Information Systems and Operations Management Department is a commitment to scholarly research, teaching and service to advance the state of knowledge in information systems and supply chain management and to train future leaders for professional and academic careers.

Website (<https://warrington.ufl.edu/information-systems-and-operations-management-department/>)

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Curriculum

- Combination Degrees
- Information Systems
- Information Systems Minor

Courses

ISM 3004 Computing in the Business Environment 4 Credits

Grading Scheme: Letter Grade

Presents fundamental concepts from two perspectives: the individual business computer user and the corporate business computing environment. Introduces common business computing applications; this is not a hands on applications training course. Students use their existing computer skills to complete assignments.

Prerequisite: basic skills for Microsoft Word, PowerPoint, and Excel.

ISM 3013 Introduction to Information Systems 4 Credits

Grading Scheme: Letter Grade

Introduces the role of information systems and technology in an organization with a focus on the use of Access and Excel to solve business problems. Receive the knowledge necessary to earn Microsoft certifications in Access and Excel.

Prerequisite: MAC 2311 or MAC 2233, and sophomore standing.

ISM 3254 Business Systems 1 2 Credits

Grading Scheme: Letter Grade

Introduces the basic tools for building business systems using object-oriented and event-driven programming paradigms. Emphasizes using Java to illustrate these ideas.

ISM 3255 Business Systems 2 2 Credits

Grading Scheme: Letter Grade

Continuation of the course sequence to develop the basic tools for building business systems using object-oriented and event-driven programming paradigms. Emphasizes using C# to illustrate these ideas.

Prerequisite: ISM 3254.

ISM 4113 Business Systems Design and Applications 2 Credits

Grading Scheme: Letter Grade

Conceptual foundations of the process, data and object oriented approaches for the analysis and design of business systems. Systems development life cycle, rapid application design, CASE tools also covered.

ISM 4210 Database Management 2 Credits

Grading Scheme: Letter Grade

Introductory database management. Topics include various stages in a database development process such as conceptual, logical, application and physical design.

Prerequisite: ISM 4113.

ISM 4220 Business Data Communications 1 2 Credits

Grading Scheme: Letter Grade

Various aspects of telecommunication systems, the use of local and wide area networks, the Internet, wireless technologies and distributed systems for decision making and strategic management questions relating to business goals, long-range planning and budgeting.

ISM 4221 Business Data Communications 2 2 Credits

Grading Scheme: Letter Grade

Helps gain insights into network security; exposure to various security algorithms and techniques via hands-on experience with projects and homework assignments.

Prerequisite: ISM 4220.

ISM 4330 Information Systems and Operations Strategy 2 Credits

Grading Scheme: Letter Grade

Policy and management issues surrounding information systems and operations management in today's enterprises.

Prerequisite: ISM 4113, ISM 4210 and ISM 4220.

ISM 4930 Special Topics in Information Systems 1-4 Credits

Grading Scheme: Letter Grade

Variable content provides an opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.

Prerequisite: department permission.

MAN 4504 Operations and Supply Chain Management 4 Credits

Grading Scheme: Letter Grade

Managerial concepts and quantitative tools required in the design, operation, and control of production systems and their relationship to business functions.

Prerequisite: BUL 4310 and FIN 3403 and GEB 3373 and MAC 2233 or MAC 2311 and MAN 3025 and MAR 3023 and QMB 3250 and STA 2023 and (Business major or Accounting major)

MAN 4538 Integrated Product and Process Design 1 3 Credits

Grading Scheme: Letter Grade

The first part of a two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes on time and within budget. Working closely with industry liaison engineers and a faculty coach, students gain practical experience in teamwork and communication, problem solving and engineering design, and develop leadership, management and people skills.

Prerequisite: senior standing.

MAN 4539 Integrated Product and Process Design 2 3 Credits

Grading Scheme: Letter Grade

Continuation of the two-course sequence in which multidisciplinary teams of engineering and business students partner with industry sponsors to design and build authentic products and processes, on time and within budget..

Prerequisite: MAN 4538.

QMB 3250 Statistics for Business Decisions 4 Credits

Grading Scheme: Letter Grade

Correlation and linear regression, model building, multiple regression, analysis of variance, time series analysis and decision analysis. Regression modeling with computer applications for business problems.

Prerequisite: STA 2023. Open only to students who need this course for their major or who have permission from the WCBA.

QMB 3302 Foundations of Business Analytics & Artificial Intelligence (AI) 4 Credits

Grading Scheme: Letter Grade

This course is designed to introduce students to the basics of data analytics and machine learning using the powerful programming language Python. Students will learn Python basics, as well as how to write programs and use Python to solve real world problems.

Prerequisite: MAC 2233 OR MAC 2311.

QMB 4701 Managerial Operations Analysis 1 2 Credits

Grading Scheme: Letter Grade

Introduces the concepts and applications of management science; become more confident in understanding and using deterministic analytic models.

Prerequisite: MAC 2233 and STA 2023.

QMB 4702 Managerial Operations Analysis 2 2 Credits

Grading Scheme: Letter Grade

Overview of stochastic applications of management science; learn stochastic modeling techniques and introductory visual basic.

Prerequisite: QMB 4701.

QMB 4905 Individual Work in Information Systems and Operations Management 1-5 Credits

Grading Scheme: Letter Grade

Reading and/or research in information systems and operations management. A written report is required.

Prerequisite: Senior standing or higher and department permission.

QMB 4930 Special Topics in Operations Analysis/Quantitative Methods 1-4 Credits

Grading Scheme: Letter Grade

Variable content provides an opportunity for in-depth study of topics not offered in other courses and of topics of special current significance.

Prerequisite: department permission.

QMB 4941 Internship in Information Systems and Operations Management 1-3 Credits

Grading Scheme: S/U

Applied work in information systems and operations management. Requires several papers and reports. Counted as free-elective credit only.

Prerequisite: department chair permission.

QMB 4956 International Studies in Quantitative Methods 1-4 Credits

Grading Scheme: Letter Grade

Provides a mechanism by which coursework taken as part of an approved study abroad program can be recorded on the UF transcript and counted toward graduation.

Prerequisite: admission to an approved study abroad program and department permission.

QMB 4970 Honors Thesis 1 Credit

Grading Scheme: S/U

A thesis is required for award of magna cum laude or summa cum laude designations. To qualify, students normally must have completed 90 semester credits of coursework (exceptions may be made) and must have at least a 3.6 GPA at the time they enroll. The thesis will be reviewed by at least one faculty member chosen by the honors coordinator from the student's major department.

Prerequisite: 90 credits earned and 3.6 UF GPA.
