

INFORMATION SYSTEMS MANAGEMENT (ISM)

ISM1000C STEM IT SKILLS AND COMPETENCIES (3.00 Credits)

This course is designed for freshman students in the STEM IT pathway. It serves as an introduction to Broward College, and assists students in coping with the challenges of college life. This course will help students confirm their major as they complete their IT core, will address successful learning strategies, provide basic IT fundamental skills, and will explore IT employability, work- place, and professional development skills.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

ISM2200C APPLIED BUSINESS ANALYTICS (3.00 Credits)

This course provides a foundation for students to understand and apply the core principles and tools of a relational database. This combination of knowledge and skills will allow students to create tables, manage data within those tables, and create customized reports derived from data stored in relational databases.

Total Contact Hrs: 48.00

Lecture Hrs: 16.00

Lab Hrs: 32.00

ISM2308C AGILE FUNDAMENTALS (4.00 Credits)

This course will cover the Agile mindset, values, principles, and general concepts. Students will explore the concepts of what it means to "be agile while doing agile" and achieve professional agility. The course is the foundation to Project Management Delivery and does not include a specific focus on a particular agile methodology or framework. A focus will be provided to the International Consortium for Agile (ICAgile) content domains for the Agile Fundamentals professional certification (ICP). Students will understand the history of the agile movement, the distinctions among Agile values, principles, and practices, key aspects of value- driven development, adaptive planning techniques, and how to cultivate the collaboration with customers, within organizations and within teams.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

ISM2311C IT PROJECT MANAGEMENT: CAPSTONE (3.00 Credits)

This capstone course puts project management into an IT context, and thoroughly prepares students for the PMP or CAPM certification exam offered by the Project Management Institute (PMI).

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: ACG2001 (minimum grade: C) and CIS2028 (minimum grade: C) and CIS2321C (minimum grade: C) and CTS2131C (minimum grade: C) and CTS2148C (minimum grade: C) and GEB2430 (minimum grade: C) and MAN2021 (minimum grade: C) and MNA1161 (minimum grade: C) and MNA2345 (minimum grade: C), Pre or Corequisite: CTS1214C (minimum grade: C)

ISM2410C ANALYZING AND VISUALIZING DATA WITH POWER BI (4.00 Credits)

This course will enable students to maximize the value of their data assets by using Power BI. Students will design and build scalable data models, clean and transform data, and enable advanced analytic capabilities that provide meaningful business value through easy-to- comprehend data visualizations. Students will also gain a fundamental understanding of data repositories and data processing both on-premises and in the cloud. Practice will also be provided to thoroughly prepare students for a Microsoft Certification Exam in Analyzing Data with Microsoft Power BI.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Complete all the courses in one of the following options:

- Option 1 - Prerequisite: COP1700C
- Option 2 - Prerequisite: COP2071C
- Option 3 - Prerequisite: ISM3212C

ISM3013C INFORMATION SYSTEMS MANAGEMENT (3.00 Credits)

This course introduces fundamental concepts of information systems and will explore approaches to managing technology. This course will equip students with an applied knowledge of management information systems for use in supporting business decisions. A focus will be provided on the application of IT service management best practices, enabling students to look at IT service management through an end-to-end operating model for the creation, delivery and continual improvement of tech-enabled product and services.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$10.00

ISM3054C WEB SYSTEMS AND TECHNOLOGIES (3.00 Credits)

This course covers the design, implementation and testing of web based applications including related software, databases, interfaces and digital media. It also covers social, ethical and security issues arising from the web and social software.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$10.00

ISM3139C ADVANCED DATA VISUALIZATION WITH EXCEL (4.00 Credits)

This course will give students the ability to add BI techniques to Excel data analysis. The course goes beyond the capabilities of tables and charts and uses Pivot Charts, the Excel Data Model, and Power BI.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Complete all the courses in the following option:

- Prerequisite: CGS1510C (minimum grade: C)

ISM3212C DATABASE MANAGEMENT (3.00 Credits)

This course provides the foundational concepts of database design; conceptual, logical and physical phases. In this course, you will create relational databases, write SQL statements to extract information to satisfy business reporting requests create entity relationship diagrams (ERDs) to design databases, and analyze table designs for excessive redundancy.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$10.00

ISM3309C AGILE PRODUCT OWNERSHIP (4.00 Credits)

This course will cover customer needs to effectively deliver valuable products and services through key agile practices such as adaptive prioritization and planning. Students will learn how to align backlogs to the product vision and balance the needs of the business, teams, and customers to maximize the value delivered. A focus will be provided to the International Consortium for Agile (ICAgile) content domains for the Agile Product Ownership professional certification.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Fees: LABORATORY FEE \$100.00, LABORATORY FEE \$100.00

ISM3314C APPLIED PROJECT MANAGEMENT (3.00 Credits)

This course will enhance an understanding of Project Management through applied projects. Students will engage in project selection and initiation, work breakdown structure and scope management, scheduling, budgeting and cost analysis, quality control, project communication plans, project risk analysis, resource leveling and procurement issues. All activities will support the Project management Institute (PMI) global standards, and the Project Management Body of Knowledge (PMBOK) standards.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$10.00

Complete all the courses in the following option:

- Prerequisite: CIS1513C (minimum grade: C)

ISM3320 INFORMATION SYSTEMS CONTROL (3.00 Credits)

This course presents a balance of the management and the technical aspects of the discipline and addresses knowledge areas of the CompTIA Security+ certification exam throughout. It provides a comprehensive overview of network security and covers communication security, network and applications security, infrastructure security, threats and vulnerabilities, World Wide Web security, cryptography, operational/ organizational security, disaster recovery, business continuity, as well as computer forensics.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: ISM3013 (minimum grade: C)

ISM3432 APPLIED QUALITY ASSURANCE METHODOLOGY (3.00 Credits)

This course teaches the IT professional the fundamentals of quality assurance for system development and software creation. The learned outcomes will be an understanding of QA factors consisting of software, modeling, testing, training, standards and procedures as well as management's position on quality assurance.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

ISM3545C DATA ANALYTICS TECHNOLOGIES (3.00 Credits)

This course is designed to introduce students to fundamental data concepts such as the difference between data and information, big data, and the process of manipulating and analyzing data through the use of statistics. It covers current topics relating to big data and explains how organizations use data to add value.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in the following option:

- Prerequisite: CGS1510C (minimum grade: C)

ISM4201C APPLIED DATA INTEGRATION AND MANIPULATION (3.00 Credits)

In this course, students extract data from a wide variety of data sources, such as files and relational data sources, perform data integration and transformation solutions, and load data into single or multiple destinations including data warehouses. Students will solve data integration business problems using best practices and troubleshooting techniques.

Total Contact Hrs: 48.00

Lecture Hrs: 24.00

Lab Hrs: 24.00

Complete all the courses in the following option:

- Prerequisite: ISM3545C (minimum grade: C)

ISM4220C NETWORKS AND DATA COMMUNICATIONS (3.00 Credits)

This course will balance the most technical concepts with applied business practice. Students will learn thorough coverage of the basic features, operations, and limitations of different types of computer networks. Students will also explore the language of computer networks as well as the effects of data communications on business and society. Topics include wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, error detection and correction, near field communications, firewalls, router security problems, the Internet of Things, cloud computing, zero-client workstations, and Internet domain names.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in the following option:

- Prerequisite: ISM3013 (minimum grade: C)

ISM4318C AGILE PRACTITIONER (4.00 Credits)

This course will cover the knowledge of agile principles and improve skills with agile techniques. Students will explore many approaches to agile such as Scrum, Kanban, Lean, extreme programming (XP) and test-driven development (TDD.) A focus will be given to Project Management Institutes (PMI) content domains for certification for agile practitioners, known as the PMI Agile Certified Practitioner (PMI-ACP).

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Complete all the courses in the following option:

- Prerequisite: CIS1513C (minimum grade: C)

ISM4323C COMPTIA ADVANCED SECURITY PRACTITIONER (CASP) (4.00 Credits)

The course will prepare the information technology (IT) professional to apply critical thinking and judgement across a broad spectrum of security disciplines to propose and implement sustainable security solutions that map to organizational strategies, and translate business needs into security requirements. Students will learn to conceptualize, engineer, integrate and implement secure solutions across complex environments, analyze risk impact, and respond to security incidents. Practice will also be provided to thoroughly prepare students for the CompTIA CASP certification exam.

Total Contact Hrs: 48.00

Lecture Hrs: 24.00

Lab Hrs: 24.00

ISM4382 GLOBAL INFORMATION SYSTEMS (3.00 Credits)

This course addresses key management issues as they are applied to global information resources management. This course also addresses strategic global systems issues such as hardware, software, Enterprise Resource Planning (ERP), electronic business integration, security and infrastructure support for a variety of industries.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: ISM3320 (minimum grade: C)

ISM4415C APPLIED DATA REPORTING (4.00 Credits)

This course provides intermediate level concepts and procedures for data manipulation and visualization. Using data visualization software, students will create various chart types and visualizations, use calculations for the purpose of data manipulation, use parameters to control data values, create visualizations using geo- mapping techniques, combine data sources for blending and prepare data for analysis.

Total Contact Hrs: 64.00

Lecture Hrs: 32.00

Lab Hrs: 32.00

Complete all the courses in the following option:

- Prerequisite: ISM3545C (minimum grade: C)

ISM4547C DATA ANALYTICS MANAGEMENT (3.00 Credits)

This course provides students with an understanding of data extraction and interpretation and their roles in creating business value. Topics covered include data quality, data visualization and exploration, and data structures and information policies. The course covers a variety of tools used for data analysis and gives the student an understanding of how to obtain, manipulate, and interpret data using current software and techniques.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in the following option:

- Prerequisite: ISM3545C (minimum grade: C)

ISM4940 PROJECT MANAGEMENT INTERNSHIP (3.00 Credits)

A course designed to provide training in a student's field of study through work experience. students are graded on the basis of documentation of learning acquired as reported by student and employer. Prerequisite: Co-Op Department approval. Student will be assigned specific course prefixes related to their academic major prior to registration. All students must contact the Co-operative Education Office to obtain registration approval.

Total Contact Hrs: 144.00

Other Hrs: 144.00