

## **INFORMATION SYSTEMS**

### **INFO 1100 S-C&TC Computer Concepts and Applications 3 hrs.**

This course will provide students with a survey of fundamental computing concepts and applications, and will offer a useful foundation upon which students can develop skills necessary to become effective users of information systems. The primary focus of this course will be on productivity software applications, including word processing, spreadsheet, database, the Internet and presentation software. This course fulfills three hours of the First Year Experience. (Competency may be demonstrated.)

### **INFO 2200 S-FSU Fundamentals of Information Systems 3 hrs.**

The course is an introduction to basic business information systems, including networking, systems analysis and design. PR: INFO 1100 or COMP 1100.

### **INFO 2205 S-C&TC Information Technology: Hardware and Operating Systems 3 hrs.**

This course provides the hardware and operating system concepts necessary for system design. System architecture and operating systems are considered for single- and multiple-user computer systems. PR: INFO 1100.

### **INFO 2220 S-C&TC Spreadsheet Design 3 hrs.**

This course is designed to introduce spreadsheet modeling and design. Through hands-on computer work, the student will become familiar with a spreadsheet application package. The course will stress good design techniques as well as spreadsheet techniques and model building. Completion of this course will provide students with the skills needed to attain Microsoft Office Specialist Certification in Excel.

### **INFO 2225 S-C&TC Fundamentals of Web Design 3 hrs.**

Introduction to Web Design course focusing on the overall web site production processes with particular emphasis on design elements involving layout, navigation, and interactivity. PR: INFO 1100.

**INFO 2235 S-FSU Microcomputer Applications in Business 3 hrs.**

This course will provide the opportunity to develop and use basic decision support systems. A problem-solving approach is used to introduce students to the modern business decision-making process. The emphasis is on making business decisions by using and customizing off-the-shelf software. PR: INFO 1100 or COMP 1100.

**INFO 2242 S-C&TC Professional Internship and Portfolio Development 3 hrs.**

The purpose of this course is to allow students to bring business topics into focus by using all their collected business knowledge. This will be accomplished through completion of a portfolio that will demonstrate to prospective employers the student's career preparation. The student will also be required to complete a professional internship in the workplace. The importance of career and goal planning will be emphasized. A total of 140 hours of supervised work will be required. PR: Instructor Consent.

**INFO 2251 S-C&TC Router Theory and Router Technologies 3 hrs.**

This course examines the theory and technology of routers, including router programming, configuration and protocols. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2995.

**INFO 2252 S-C&TC Advanced Routing and Switching 3 hrs.**

This course covers advanced routing and switching concepts. It is a continuation of INFO 2251. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2251.

**INFO 2253 S-C&TC Project-Based Learning 3 hrs.**

This course covers advanced Wide Area Network technologies. It is a continuation of INFO 2252. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2252

**INFO 2256 S-C&TC Information Security 3 hrs.**

This course will provide a foundation for understanding the key issues important in maintaining information CIA (Confidentiality, Integrity, Availability) in a business environment. The course covers fundamental theories as well as the practical skills. Students will learn security management and technical components of information security. They will be exposed to a wide spectrum of security activities, methods, methodologies, and procedures. PR: INFO 2205, INFO 2995.

**INFO 2995 Pro Intern & Portfolio Dev 3 hrs.**

**INFO 3310 Systems Analysis and Design 3 hrs.**

Students in this course are introduced to the analysis and design of computerized systems for handling the data processing requirements of a typical business. Topics discussed include information flow, file design, systems integration, system security and controls. Students are required to write portions of the system specifications for a model business application. PR: INFO 3339.

**INFO 3339 Programming, Data and File Structures 4 hrs.**

This course provides an understanding of data, files and business reports. It requires students to plan, write and process business programs which stress data and file manipulation. The course also includes the principles of effective business report design. PR/CR: INFO 2205.

**INFO 3340 Advanced Application Development 4 hrs.**

This is an advanced course in application programming. This course includes table handling, sorting, external report generation, file updating and video forms design, and object-oriented programming. PR: Grade of C or better in INFO 3339.

**INFO 3350 Internship in Information Systems 3 hrs.**

This internship course is designed as a learning experience which requires the integration of information systems theory with actual job experience in an information systems department. The student must be enrolled in the four-year information systems program. The employer is responsible for evaluating and reporting the development of the student. PR: INFO 3340 and junior status.

**INFO 4420 Database Design and Implementation 3 hrs.**

This course covers information systems design and implementation within a database management system environment. Students will demonstrate their mastery of the design process acquired in earlier courses by designing and constructing a physical system, using database software to implement the logical design. The class will use Microsoft Access or Oracle, when available, for logical database design. Data models and modeling tools, CASE tools, code/application generation and client/server planning are among the topics to be covered. PR: INFO 3340.

**INFO 4430 Advanced Topics in Information Systems 3 hrs.**

Current topics of interest in information systems, to be selected by the instructor and approved by the department coordinator and Dean. Typical topics include application design using Visual Basic or client/server program development using Oracle. PR: INFO 3340.

**INFO 4998 Undergraduate Research 0-6 hrs.**

Undergraduate research is an experiential learning activity that provides an opportunity for a student to engage in the scholarly activities of their major discipline under the guidance of a faculty mentor who will work in close partnership with each student in his or her formulation of a project, the development of a research strategy, and the assessment of a student's progress. The primary goal is for each student scholar to conduct an inquiry or investigation that makes an original, intellectual or creative contribution to their discipline and which is shared in an appropriate venue. Sophomore-Senior Level, Repeatable. Instructor approval required.