

# INFORMATION SYSTEMS (INFS)

## **INFS 3150 Principles Of Structured Computer Programming And Problem Solving**

[3 credit hours]

Introduction to fundamental constructs of computer programming. This course introduces data types, variables, constants, arrays, objects, properties, methods, arguments, events, subroutines, functions, data handling, and program control structures. Additionally the course helps students develop skills and logical reasoning used in solving business problems.

**Prerequisites:** BUAD 1020 with a minimum grade of D- or CMPT 1100 with a minimum grade of D- or Business Computer Prof-Score with a score of 39

**Term Offered:** Spring, Summer, Fall

## **INFS 3160 Business Application Development**

[3 credit hours]

Building on programming skills developed in INFS3150 this course emphasizes database connectivity, data retrieval, design of user interfaces and business application development. The course will survey an object oriented language like C++, Java.

**Prerequisites:** INFS 3150 with a minimum grade of D-

## **INFS 3250 Business Data Analysis & Reporting**

[3 credit hours]

This course is designed to acquaint students with the application and use of integrated software. The course will provide students with hands-on experience in data analysis and manipulation, macro recording and editing and other advanced features and functions of popular business software packages. Students will gain skills in computer based report writing and data visualization techniques.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

**Term Offered:** Spring, Summer, Fall

## **INFS 3370 Business Data Communications**

[3 credit hours]

An introduction to data communications in business. Topics include local-area and wide-area networks, including the Internet; hardware and media; network topologies; client-server networks; and network operating system software.

**Prerequisites:** BUAD 1020 with a minimum grade of D- or CMPT 1100 with a minimum grade of D- or Business Computer Prof-Score with a score of 39

**Term Offered:** Spring, Fall

## **INFS 3380 Web Application Development I**

[3 credit hours]

An introduction to business application program development on the web using contemporary technologies with emphasis on client-side applications. Implications of information technology projects on organizations will be discussed.

**Prerequisites:** BUAD 1020 with a minimum grade of D- or CMPT 1100 with a minimum grade of D-

**Term Offered:** Spring, Summer, Fall

## **INFS 3400 Principles of Information Systems Security**

[3 credit hours]

This course aims to give students a broad understanding of technical and business issues in information systems security, systems security models, analysis of process and technology in systems security and security policies leading to information assurance.

## **INFS 3770 Introduction To Database Systems**

[3 credit hours]

In this course, the design and implementation of database management systems are studied. Students will develop significant skills in data modeling, database design and SQL. Students will work in teams developing a database application.

**Prerequisites:** INFS 3150 with a minimum grade of D- and (BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-)

**Term Offered:** Spring, Summer, Fall

## **INFS 3780 Enterprise Wide Information Systems Management**

[3 credit hours]

Introduction to ERP, Roles of SCM and CRM in Business Environment, Major Business Processes relating to functional areas of Business in an integrated software environment. Extensive hands-on exercises using an ERP software.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

**Term Offered:** Fall

## **INFS 3980 Contemporary Topics**

[3 credit hours]

Selected current topics in Information Systems practice, trends and technology.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

**Term Offered:** Spring, Fall

## **INFS 4100 Business Intelligence Using Big Data**

[3 credit hours]

This course aims to give students a broad understanding of technical and business issues in data analytics. Students will gain proficiency with reporting, data visualization and prediction using SAP Business Warehouse.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

## **INFS 4300 Web Application Development II**

[3 credit hours]

Address web architecture, web server administration and security issues; analyze, design, develop, and implement extensive database oriented business processes using server-side and client-side processing.

**Prerequisites:** (INFS 3770 with a minimum grade of D- and INFS 3380 with a minimum grade of D-)

**Term Offered:** Spring

## **INFS 4320 Information Systems Planning And Outsourcing Management**

[3 credit hours]

Issues of planning, control, outsourcing management, and the organizational impact of computer systems will be studied. Challenges and opportunities in outsourcing will also be the focus of the course.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

**Term Offered:** Fall

### **INFS 4510 Business Systems Analysis and Design**

[3 credit hours]

Analysis, design and implementation of business information systems will be studied using Case tools and other appropriate software systems. Will also emphasize management of organizational change brought about by information technology projects.

**Prerequisites:** (BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-) and INFS 3150 with a minimum grade of D-

**Term Offered:** Spring, Summer, Fall

### **INFS 4620 Enterprise Database Systems**

[3 credit hours]

In-depth exposure to database concepts including relational and Object Data Models, normalization, logical design, stored functions, procedures, triggers, forms and reports will be explored using a business database package.

**Prerequisites:** INFS 3770 with a minimum grade of D- and (BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-)

**Term Offered:** Spring

### **INFS 4680 Enterprise Systems Implementation and Integration**

[3 credit hours]

This course will provide students an overview of the fundamental business processes and examination of how business processes interact with SAP ERP including the system configuration and implementation. Issues. Students will gain a deep appreciation for the role of enterprise systems in managing processes from multiple functional perspectives. Also, students will work on various hands-on exercises including configuration of a fictitious company and implementation of business rules using an enterprise system.

**Prerequisites:** BUAD 2020 with a minimum grade of D- or BUAD 3050 with a minimum grade of D-

### **INFS 4810 Enterprise Database Administration**

[3 credit hours]

Designed for database administrators. Covers Physical Database Design, Indexing, performance monitoring and evaluation, partitioning databases, distributed and parallel processing. Exposure will be sufficient for certification exams.

**Prerequisites:** (INFS 3770 with a minimum grade of D- and INFS 4510 with a minimum grade of D- and INFS 4620 with a minimum grade of D-)

### **INFS 4940 Info Systems Internship**

[3 credit hours]

A prearranged work-study program where students specializing in computer systems, operations management or decision sciences obtain on-the-job experience while learning and applying the basic concepts and techniques of their respective areas.

**Term Offered:** Spring, Summer, Fall

### **INFS 4990 Independent Study: Readings And Research**

[1-3 credit hours]

Individual student study of a topic of interest to both the faculty member and student. Students are responsible for finding a faculty member to sponsor readings and research.

**Term Offered:** Spring, Summer, Fall