



## MANAGEMENT INFORMATION SYSTEMS (2021-2022)

Francis J. Noonan School of Business

James Padilla, J.D., Dean

### Management Information Systems Major

The Management Information System (MIS) major is currently being phased out of the academic program offerings. Students cannot declare a major in MIS but are encouraged to consider the minor if this area of study is of interest.

### Requirements for the minor in Management Information Systems:

A student must earn a cumulative average of 2.000 or better in all L.CSC, L.CIT, L.ACC, and L.BUS courses. Students may “double count” a maximum of 6 credits in a minor.

Req	Course	Cr's
1	L.CIT-110: Principles of Computing & IT	3
2	L.ACC-227: Managerial Accounting	3
3	L.BUS-230: Principles of Management	3
<b>Select at least 9 credits from Req 4</b>		
4	L.CSC-115: Introduction to Programming	4
4	L.CIT-317: Network Management	3
4	L.CIT-318: Database Management	3
4	L.CSC-311: Human Computer Interaction	3
4	L.CIT-221: Data Analysis	3
4	L.CIT-320: Web Publishing	1
4	L.CIT-326: Visual Basic Programming	3
4	L.CIT-327: Structured COBOL Programming	3
4	L.CSC-332: Web Programming	3
4	L.CIT-485: Systems Engineering	3
<b>18-19 total required credits</b>		

## 2021-2022 MANAGEMENT INFORMATION SYSTEM COURSES:

### L.CIT-110: Principles of Computing and IT

This is an introductory course focused on the use of computing technology to solve problems, as well as offering hands-on experience with common computer applications. These applications will be used as tools to help students analyze problems and structure solutions, and include word processing, database, spreadsheet, program development, and the internet. Topics will include personal computer hardware and software, operating systems, computer networks, and information assurance. Prerequisite: Three years of high school mathematics including one year of Algebra II with a grade of C- or better. 3 credits.

### L.CIT-221: Data Analysis

This course focuses on evaluating and analyzing different types of business-related data and developing effective solutions. It will utilize current spreadsheet and database software as tools to facilitate the interpretation of the

data. The course will have a lab component requiring student laptop computers equipped with spreadsheet and database software. Prerequisites: L.ACC-227 or L.ACC-228. 3 credits.

#### **L.CIT-317: Network Management**

This course focuses on LAN management issues associated with evaluating, installing, and administering computer networks. This course will integrate current technology and internetworking issues within the context of network operating systems and hardware. The course will have a lab component requiring dedicated desktop and server computers, and network hardware. Prerequisite: L.CIT-110 and L.CIT-221. 3 credits.

#### **L.CIT-318: Database Management**

Database Management is a study of the database models, the design, development, and implementation of a database, E-R and UML diagrams, SQL query language, normalization, database selection, distributed databases, ethical use of databases, and database security and control. Prerequisite: L.CIT-110 and L.CIT-221. 3 credits.

#### **L.CIT-320: Web Publishing**

This course is designed to introduce you to the tools, techniques, and skills needed to publish and manage materials posted on a web site. It introduces basic HTML coding and the skills needed to publish simple web pages on an internet server. It then continues to build on authoring techniques, and introduces programming with JavaScript, a popular web programming language. It also covers topics on web design, web project management, and web maintenance from the management, technical, and user perspectives, culminating with a comprehensive web site application. 3 credits.

#### **L.CIT-326: Visual Basic Programming**

This course focuses on continued development of computer applications, focusing on programming software in an object-oriented/event-driven environment by taking full advantage of the Microsoft Visual Basic programming language. The course integrates hands-on real-world scenarios with in-depth discussions of programming concepts and techniques. The course will have a lab component requiring student laptop computers equipped with the Microsoft Visual Basic programming software. Prerequisite: L.CIT-110 and L.CSC-115. 3 credits.

#### **L.CIT-327: Structured COBOL Programming**

This course introduces the student to the COBOL programming language, still one of the most popular business programming languages. The main focus of the course is to plan and code working computer programs. Topics covered include sequential file processing, common program structures such as decisions and loops, tables, data validation, batch and online processing, and direct access file processing. Prerequisite: L.CSC-115. 3 credits.

#### **L.CIT-485: Systems Engineering**

This course uses modeling techniques that aid in the analysis of computer information systems. Students will study, create, and analyze various models and utilize them in designing these systems. Students will also analyze how these systems fit into an organization's overall structure and strategic plan. Prerequisites: L.CSC-115, L.CIT-317, L.CIT-318 and senior standing. 3 credits.