

# INFORMATION SYSTEMS (FERMANIAN SCHOOL OF BUSINESS), B.S.

## Program Learning Outcomes

*Students who complete the program in Information Systems will be able to:*

1. Exhibit general knowledge of theories and practices in the core areas of business.
2. Critically analyze and apply business knowledge to solve complex business situations.
3. Demonstrate effective business communication through both written and verbal means.
  - a. Students will be able to speak about their work with precision, clarity and organization
  - b. Students will be able to write about their work with precision, clarity and organization
  - c. Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand.
4. Formulate decisions informed by ethical values.
5. Collaborate effectively in teams.
6. Write correct and robust software.
7. Analyze the interaction between hardware and software.
8. Apply technical knowledge and critical thinking to solve problems.
9. Understand and create arguments supported by quantitative evidence.
10. Demonstrate knowledge of information systems and be prepared for careers that use information systems, and graduate study in fields related to information systems.

|                           |                                                      |           |
|---------------------------|------------------------------------------------------|-----------|
| ISS 4003                  | Information and Computer Security                    | 3         |
| ISS 4014                  | Data Base Systems and Web Integration                | 4         |
| ISS 4072                  | Internship in Information Systems                    | 2         |
| ISS 4081                  | Senior Seminar in Information Systems                | 1         |
| FIN 3035                  | Business Finance                                     | 3         |
| MGT 4088<br>and MGT 4088L | Strategic Management<br>and Strategic Management Lab | 3         |
| MKT 3032                  | Principles of Marketing                              | 3         |
| <b>Total Units</b>        |                                                      | <b>68</b> |

<sup>1</sup> ECO 1001 and ECO 1002 may substitute for ECO 1000.

<sup>2</sup> MTH 1044 or MTH 1064 may substitute for MTH 1073.

### Recommended:

| Code                      | Title       | Units |
|---------------------------|-------------|-------|
| Cross-Cultural Experience |             |       |
| PHL 2011                  | Ethics (FE) | 3     |

| Code                               | Title                                                                                    | Units |
|------------------------------------|------------------------------------------------------------------------------------------|-------|
| <b>Lower-Division Requirements</b> |                                                                                          |       |
| ACC 2001                           | Principles of Financial Accounting                                                       | 4     |
| ACC 2002                           | Principles of Managerial Accounting                                                      | 3     |
| BUS 1000                           | Introduction to Business and Systems                                                     | 3     |
| BUS 2001                           | Legal Environment of Business                                                            | 3     |
| CSC 1043<br>and CSC 1043L          | Introduction to Computer Programming<br>and Introduction to Computer Programming Lab     | 3     |
| CSC 1054<br>and CSC 1054L          | Objects and Elementary Data Structures<br>and Objects and Elementary Data Structures Lab | 4     |
| CSC 2052<br>and CSC 2052L          | Data Structures in C++<br>and Data Structures in C++ Lab                                 | 2     |
| ECO 1002                           | Principles of Microeconomics (FE) <sup>1</sup>                                           | 3     |
| MGT 2012                           | Principles of Management                                                                 | 3     |
| MTH 1073                           | Business Calculus (FE) <sup>2</sup>                                                      | 3     |
| MTH 2003                           | Introduction to Statistics                                                               | 3     |
| <b>Upper-Division Requirements</b> |                                                                                          |       |
| BUS 3013                           | Business Communications                                                                  | 3     |
| BUS 4080                           | International Business                                                                   | 3     |
| CSC 3014                           | Operating Systems                                                                        | 4     |
| ISS 3042                           | Project Management and Quality Assurance                                                 | 2     |
| ISS 3073                           | Networking and Security                                                                  | 3     |