

INFORMATION SYSTEMS (MATHEMATICAL, INFORMATION, AND COMPUTER SCIENCE), B.S.

Program Learning Outcomes

Graduates of the program will be able to:

- demonstrate general knowledge of theories and practices in the core areas of business.
- critically analyze and apply business knowledge to solve complex business situations.
- demonstrate effective business communication through both written and verbal means.
 - Students will be able to speak about their work with precision, clarity and organization
 - Students will be able to write about their work with precision, clarity and organization
 - Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand.
- formulate decisions informed by ethical attitudes and values.
- collaborate effectively in teams.
- write correct and robust software.
- analyze the interaction between hardware and software.
- apply their technical knowledge and critical thinking to solve problems.
- understand and create arguments supported by quantitative evidence.
- understand the professional, ethical, and social issues and responsibilities with the implementation and use of technology.

Code	Title	Units
Lower-Division Requirements		
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 and CSC 1043L	Introduction to Computer Programming and Introduction to Computer Programming Lab	3
CSC 1054 and CSC 1054L	Objects and Elementary Data Structures and Objects and Elementary Data Structures Lab	4
CSC 2052 and CSC 2052L	Data Structures in C++ and Data Structures in C++ Lab	2
ECO 1002	Principles of Microeconomics (FE)	3
MGT 2012	Principles of Management	3
MTH 1073	Business Calculus (FE) ¹	3
MTH 2003	Introduction to Statistics	3
Upper-Division Requirements		
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
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 and MGT 4088L	Strategic Management and Strategic Management Lab	3
MKT 3032	Principles of Marketing	3
Total Units		68

¹ MTH 1044 or MTH 1064 may substitute for MTH 1073.

Recommended:

Code	Title	Units
Cross-Cultural Experience		
CSC 3023	Software Engineering	3
ISS 3092	Topics in Cyber Security	2
PHL 2011	Ethics (FE)	3