

BS IN INFORMATION TECHNOLOGY

The information technology program provides a broad base of core, computer-related skills, and knowledge — programming, networking, human computer interaction, databases, and web systems. Students become technically competent in computer systems and learn how to manage existing technologies. But they also learn “context” — how to advocate for users.

- Information Technology, BS (p. 1)
- Information Technology- Cyber Security Concentration, BS (p. 1)

Information Technology, BS

Please, see the list of courses in the plan of study.

Information Technology- Cyber Security Concentration, BS

Code	Title	Hours
CSET 4850	Computer and Network Security	4
ENGT 4050	Senior Technology Capstone (students need to choose Cyber Security related projects)	3
CSET 3300	Database-Driven Web Sites	4

Students declaring a concentration in Cyber Security must take cyber security related projects in CSET 4850, CSET 3300, and ENGT 4050.

- Information Technology, BS (p. 1)
- Information Technology- Cyber Security Concentration, BS (p. 1)

Information Technology, BS

First Term		Hours
CSET 1100	Introduction to Computer Science and Engineering Technology	4
MATH 1730	Calculus with Applications to Business and Finance	5
ECON 1150	Principles Of Macroeconomics	3
ENGT 1000	Engineering Technology Orientation	1
ENGL 1110	College Composition I	3
Hours		16
Second Term		
CSET 1200	Object Oriented Programming and Data Structures	3
ECON 1200	Principles Of Microeconomics	3
Natural Sciences Core and Natural Science Core Laboratory		4
ENGL 2950	Technical Writing	3
Social Sciences Core		3
Hours		16
Third Term		
BUAD 2040	Financial Accounting Information	3
ENGT 2500	Technical Project Management	3
ITEC 2100	Small Computer Systems	3

Diversity of US		3
Arts/Humanities Core		3
Hours		15
Fourth Term		
ENGT 3050	Fundamentals Of Electricity	4
BUAD 2020	Information Technology Management	3
BUAD 2050	Accounting For Business Decision-Making	3
Communications Elective		3
CSET 2200	PC and Industrial Networks	4
Hours		17
Fifth Term		
ENGT 3010	Applied Statistics And Design Of Experiments	4
CSET 3200	Client/Server Computing	3
CSET 3100	Advanced Web Site Design	3
INFS 3770	Introduction To Database Systems	3
Art/Humanities Core		3
Hours		16
Sixth Term		
Technical/Professional Development Elective		3
CSET 3300	Database-Driven Web Sites	4
BUAD 3020	Principles Of Manufacturing And Service Systems	3
CSET 3250	Client-Side Scripting	3
INFS 4300	Machine Learning for Prediction & Classification	3
Hours		16
Seventh Term		
Technical/Professional Development Elective		3
BUAD 3030	Managerial And Behavioral Processes In Organizations	3
CSET 4100	SERVER-SIDE PROGRAMMING	3
CSET 4750	Computer Networks And Data Communication	4
CSET 4150	Web Server Administration	3
Hours		16
Eighth Term		
Technical/Professional Development Elective		3
CSET 4250	Applied Programming Languages	3
ENGT 4050	Senior Technology Capstone	3
CSET 4850	Computer and Network Security	4
Natural Sciences Core		3
Hours		16
Total Hours		128

Information Technology- Cyber Security Concentration, BS

Students in the BS Information Technology – Cyber Security Concentration must take cyber security related projects in the following

classes: CSET 3300, CSET 4850, and ENGT 4050. Please, consult the IT Program Director for additional information.

First Term		Hours
CSET 1100	Introduction to Computer Science and Engineering Technology	4
MATH 1730	Calculus with Applications to Business and Finance	5
ECON 1150	Principles Of Macroeconomics	3
ENGT 1000	Engineering Technology Orientation	1
ENGL 1110	College Composition I	3
Hours		16

Second Term		Hours
CSET 1200	Object Oriented Programming and Data Structures	3
Social Sciences Core		3
ECON 1200	Principles Of Microeconomics	3
Natural Sciences Core and Natural Science Core Laboratory		4
ENGL 2950	Technical Writing	3
Hours		16

Third Term		Hours
BUAD 2040	Financial Accounting Information	3
ENGT 2500	Technical Project Management	3
ITEC 2100	Small Computer Systems	3
Diversity of US		3
Arts/Humanities Core		3
Hours		15

Fourth Term		Hours
ENGT 3050	Fundamentals Of Electricity	4
BUAD 2020	Information Technology Management	3
BUAD 2050	Accounting For Business Decision-Making	3
Communication Elective		3
CSET 2200	PC and Industrial Networks	4
Hours		17

Fifth Term		Hours
ENGT 3010	Applied Statistics And Design Of Experiments	4
CSET 3200	Client/Server Computing	3
CSET 3100	Advanced Web Site Design	3
INFS 3770	Introduction To Database Systems	3
Art/Humanities Core/ Non-US Diversity		3
Hours		16

Sixth Term		Hours
Technical/Professional Development Elective		3
CSET 3300	Database-Driven Web Sites	4
BUAD 3020	Principles Of Manufacturing And Service Systems	3
CSET 3250	Client-Side Scripting	3
INFS 4300	Machine Learning for Prediction & Classification	3
Hours		16

Seventh Term

Technical/Professional Development Elective		3
CSET 4100	SERVER-SIDE PROGRAMMING	3
BUAD 3030	Managerial And Behavioral Processes In Organizations	3
CSET 4750	Computer Networks And Data Communication	4
CSET 4150	Web Server Administration	3
Hours		16

Eighth Term

Technical/Professional Development Elective		3
CSET 4250	Applied Programming Languages	3
ENGT 4050	Senior Technology Capstone	3
CSET 4850	Computer and Network Security	4
Natural Sciences Core		3
Hours		16
Total Hours		128

- PLO 1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- PLO 2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- PLO 3. Communicate effectively in a variety of professional contexts.
- PLO 4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- PLO 5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- PLO 6. Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals. [IT program criteria].