



# Computer Information Systems, B.S. *major*

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- CS 4360 Software Engineering (3 credits)
- CS 4970 Internship (3 credits)

Required Credits: 76

Required GPA: 2.25

## I REQUIRED BASIC CORE COURSES

Complete the following courses:

- ACCT 2101 Principles of Accounting I (3 credits)
- ACCT 2102 Principles of Accounting II (3 credits)
- BUAD 2220 Legal Environment (3 credits)
- BUAD 2231 Business Statistics I (3 credits)  
or STAT 2610 Applied Statistics (4 credits)
- BUAD 2280 Computer Business Applications (3 credits)
- BUAD 3223 Operations Management (3 credits)
- BUAD 3351 Management (3 credits)
- BUAD 3361 Marketing (3 credits)
- BUAD 3381 Management Information Systems (3 credits)
- BUAD 3771 Financial Management (3 credits)
- BUAD 4559 Strategic Management (3 credits)
- BUAD 4600 Senior Seminar: Business Administration (1 credit)
- ECON 2000 Principles of Microeconomics (3 credits)
- ECON 2100 Principles of Macroeconomics (3 credits)
- MATH 2210 Discrete Mathematics (4 credits)

## II ADDITIONAL REQUIRED COURSES

Complete the following courses:

- BUAD 3382 Business Application Development (3 credits)
- BUAD 3384 Systems Analysis and Design (3 credits)
- BUAD 4385 Data Modeling and Visualization (3 credits)
- CS 1309 Problem Solving and Computation (3 credits)
- CS 2321 Computer Science I (4 credits)
- CS 2322 Computer Science II (4 credits)
- CS 4390 Social, Ethical, and Professional Issues in Computing (3 credits)

## III REQUIRED ELECTIVES

Select three of the following: At least TWO courses must be from Group B

### GROUP A.

- BUAD 3281 Management Science (3 credits)
- BUAD 3283 E-Commerce Web Development (3 credits)
- BUAD 3383 Data Communications (3 credits)
- BUAD 4386 Information Systems Analytics (3 credits)
- BUAD 4387 Strategic Information Management (3 credits)  
May include 3 credits of
- BUAD 4970 Internship (1-12 credits)

### GROUP B.

- CS 2270 Introduction to Web Programming (3 credits)
- CS 3270 Advanced Web Programming (3 credits)
- CS 3350 Event-Driven Programming in a Windows Environment (3 credits)
- CS 3360 Object-Oriented Software Development (3 credits)
- CS 3370 Mobile Application Development (3 credits)
- CS 3380 Game Development (3 credits)
- CS 3507 Introduction to Databases (3 credits)
- CS 3528 Data Structures and Algorithms (4 credits)
- CS 3560 Data Communications and Networks (3 credits)

## Program Learning Outcomes | Computer Information Systems, B.S.

1. Graduates will demonstrate a foundational knowledge in the field of business.  
  
Students will be able to analyze information systems solutions professionally and ethically.
2. Graduates will demonstrate information literacy.  
  
Student will be able to evaluate the management of data through computer technology.
3. Graduates will demonstrate professional communication skills.  
  
Students will be able to apply information systems (IS) solutions within industry settings.
4. Graduates will demonstrate the ability to work effectively as part of a team.  
  
Students will be able to apply algorithmically multiple problem solving techniques.
5. Graduates will demonstrate the ability to analyze complex business situations and ethical obligations in a realistic business environment.

Students will be able to develop software in at least one higher-level programming language using an object-oriented approach.