

B.S. DEGREE IN COMPUTER SCIENCE WITH BUSINESS

82 HOURS

A graduate with a Bachelor of Science degree in Computer Science with Business will:

1. Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
2. Be able to demonstrate understanding of and ability to apply accounting, finance, management, and marketing knowledge to solve problems in business, especially using computers.
3. Be able to apply a Christian worldview in the practice of computer science.
4. Be prepared for a career and/or vocation using computer science, especially in the business field.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I: Introduction
CMSC-2133 Object-Oriented Software Engineering
CMSC-2213 Internet Application Development
CMSC-2233 Data Structures and Algorithm Analysis
CMSC-2313 Software Engineering II: Practices
CMSC-2413 Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313 Software Engineering III: Ethics
CMSC-3443 Computer Organization and Architecture
CMSC-4123 Software Engineering IV: Tools
CMSC-4243 Software Engineering V: Projects
CMSC-4323 Database Systems
CMSC-4413 Operating Systems
CMSC-4513 Programming Languages

9 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken, which can include CENG-4213.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113 Business and Professional Communication

ENGL-3493 Technical Writing

6 HOURS MATHEMATICS

MATH-1623 Introduction to Discrete Mathematics
MATH-2913 Statistical Methods

15 HOURS BUSINESS CHOSEN FROM

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
ECON-2113 Macroeconomics
FINC-3113 Financial Management
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011 Computer Science Team Experience I
CMSC-2011 Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011 Computer Science Team Experience II
CMSC-4011 Computer Science Team Experience II

UNIVERSITY CORE CURRICULUM

B.S. - 51 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

COMMUNICATION, 9 HOURS

COMM-1213: Oral Communication
ENGL-1113: English Composition I
ENGL-1213: English Composition II

MATHEMATICS, 3 HOURS

MATH-1623: Introduction to Discrete Mathematics

REQUIRED BIBLE, 6 HOURS

BIBL-1023: Foundations: Introduction to the Good Life
BIBL-1103: Story: Introduction to Christian Worldview

BIBLE ELECTIVES, 3 HOURS

CAPSTONE, 3 HOURS

BIBL-4533: Bible Capstone

POLITICAL SCIENCE, 3 HOURS

POLS-2113: Introduction to American Government

AMERICAN HISTORY, 3 HOURS

HIST-2213: History of the U.S. to 1877
HIST-2223: History of the U.S. Since 1877

GREAT WORKS, 3 HOURS

ARTS-2013: Survey of Visual Culture
ARTS-2423: History of Photography and Motion Pictures
ENGL-2213: Perspectives in Literature
MATH-2123: The History of Mathematics
MUSC-2013: Music Appreciation
MUSC-2023: Jazz Appreciation
MUSC-3213: Perspectives in World Music

SCIENCE, 6 HOURS

One course must include a lab

PSYC, SOCIAL SCIENCES, FINE ARTS, OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these areas: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

LIBERAL ARTS, 9 HOURS

9 hours from any liberal arts area

For more information on how to apply study abroad trips to the core, see page 25.