B.S. DEGREE IN COMPUTER SCIENCE 81 HOURS

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

- Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
- Be able to apply a Christian worldview in the practice of computer science.
- Be prepared for a career and/or vocation using computer science.

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

12 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

17 HOURS MATHEMATICS

MATH-1623	Introduction to Discrete Mathematics
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2913	Statistical Methods
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MATH-3513 Linear Algebra

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

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

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.