

B.S. in Computer Science (42 credits)

Division of Science

SAMPLE FOUR-YEAR DEGREE PLAN

The B.S. in Computer Science is designed to equip students for high-growth, high-demand careers in programming and other computer-related fields while encouraging them to think critically about the relationship of technology to their Christian faith and human flourishing. Through an online partnership with Rize Education, the Computer Science program offers a strong foundation in programming, systems, and software development with optional concentrations in applied AI, cybersecurity, and data science. The program furnishes students with both core computing knowledge and deeper understanding in an area of specialization, positioning graduates for success in a wide range of professions and postgraduate studies.

Year 1 Fall (16 credits)	
MATH 1064 Algebra and Trigonometry	4
CPSC Introduction to Computer Programming I	3
ENGL 1003 Freshman Comp. I	3
SEMR 2323 Foundations for Success	3
CPSC 1203 Introduction to the Internet, Online Research, and Website Design	3
Year 2 Fall (15 credits)	
BIBL 1013 Old Testament Survey	3
ENGL 2103 Speech Communication	3
CPSC 2293 Web Page Design and Programming	3
Optional Concentration Course 1	3
Core Course (Social Sciences)	3
Year 3 Fall (15 credits)	
CPSC 3103 Systems Analysis and Design	3
CPSC 3153 Theory of Computing	3
Optional Concentration Course 3	3
RELG 2403 Basic Christian Beliefs	3
Free Elective	3
Year 4 Fall (15 credits)	
CPSC 4313 Frontend Application Development	3
CPSC 4423 Advanced Networking Applications	3
Core Course (History)	3
Free Elective	3
Free Elective	3

Year 1 Spring (13 credits)	
CPSC 1903 Introduction to Computer Programming II	3
SEMR 1051 Technology and Faith	1
ENGL 1013 Freshman Comp. II	3
CPSC 1103 Intro to Computers and Information Processing	3
MATH 2153 Discrete Mathematics	3
Year 2 Spring (16 credits)	
BIBL 1023 New Testament Survey	3
CPSC 3354 Operating Systems and Servers	3
Optional Concentration Course 2	3
ASTH 2053 Music and Art Appreciation	3
Core Course (Lab Science)	4
Year 3 Spring (16 credits)	
CPSC 3543 Algorithms	3
CPSC 2343/53/63 Career Navigation and Exploration	3
SEMR 2061 Technology and Ethics	1
Core Course (Humanities)	3
Optional Concentration Course 4	3
Free Elective	3
Year 4 Spring (16 credits)	
CPSC 4303 Advanced Scripting and Common Language Interfaces	3
CPSC 4903 Computer Science Senior Capstone	3
SEMR 4071 Technology and Personal Responsibility	1
Free Elective	3
Free Elective	3
Free Elective	3

This sample plan represents one possible pathway through the major. Individual plans may vary. Students may select from one of three optional concentrations in Applied AI, Cybersecurity, or Data Science. On average students should take 15 credits each semester to complete the necessary 120 credits required for graduation. Some elective courses may not be offered every year. An actual degree plan tailored to the needs of each student should be developed in consultation with a faculty advisor.