



Southwest Baptist UNIVERSITY

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

FRESHMAN - FALL SEMESTER

ENG 1113	Communication: English Composition I	3
MAT 1195	Reasoning: Calculus I	5
UNI 1111	Opportunities: University Seminar	1
CIS 1033	Foundations of Computer Science	3
CIS 1163	Personal Cybersecurity	3
Total Credits		15

FRESHMAN - SPRING SEMESTER

ENG 2213 / ENG 3813	Communication: English Composition II <i>or</i> Communication: Professional Writing and Editing	3
UNI 1121	Reasoning: Introduction to Critical Thinking	1
DISCOVER	Enrichment: (Enrichment Options)	3
DISCOVER	Values: (Spiritual Formation Options)	2
CIS 1144	Computer Science I	4
MAT 1173	Discrete Mathematics	3
Total Credits		16

SOPHOMORE - FALL SEMESTER

ECO 2023	Society: Principles of Microeconomics	3
DISCOVER	Communication: (Communication Options)	3
DISCOVER	Discipline: (Discipline Options)	3
CIS 1154	Computer Science II	4
MAT 3343	Mathematical Statistics	3
Total Credits		16

SOPHOMORE - SPRING SEMESTER

DISCOVER	Inquiry: (Inquiry Options)*	4
CIS 1141	Introduction to Linux and Scripting	1
CIS 2003 <i>or</i> CIS 3553	Web and User Experience Design <i>or</i> Software Quality Assurance and Testing	3
CIS 2213	System Analysis and Design	3
CIS 2253	Full Stack Web Development	3
Total Credits		14

JUNIOR - FALL SEMESTER

DISCOVER <i>or</i> CIS 3313	Society: (American Studies Options) <i>or</i> Advanced System Analysis and Design	3
CIS 2013	Networking and Cloud Computing	3
CIS 3123	Survey of Data Science	3
CIS 3323	Database Management System Design	3
CIS 3412	Machine Organization	2
Total Credits		14

JUNIOR - SPRING SEMESTER

BIB 1013 <i>or</i> CIS 3033	Values: Old Testament History <i>or</i> Secure Software	3
CIS 2003 <i>or</i> CIS 3553	Web and User Experience Design <i>or</i> Software Quality Assurance and Testing	3
CIS 3333	Algorithms and Data Structures	3
CIS 3433 <i>or</i> CHOICE	Artificial Intelligence and Machine Learning <i>or</i> Mathematics/Science Choice	3
CIS 3852	Computing Ethics and Professional Development	2
CHOICE	Mathematics/Science Choice	3
Total Credits		17

SENIOR - FALL SEMESTER

BIB 1023	Values: New Testament History	3
DISCOVER <i>or</i> CIS 3313	Society: (American Studies Options) <i>or</i> Advanced System Analysis and Design	3
CIS 4462	Applied Software Engineering I	2
CIS 4981	Internship in Computing	1
CHOICE	Mathematics/Science Choice	6
Total Credits		15

SENIOR - SPRING SEMESTER

BIB 1013 <i>or</i> CIS 3033	Values: Old Testament History <i>or</i> Secure Software	3
DISCOVER	Values: (Cultural Awareness Options)	2
CIS 3433 <i>or</i> CHOICE	Artificial Intelligence and Machine Learning <i>or</i> Mathematics/Science Choice	3
CIS 4423	Operating Systems	3
CIS 4472	Applied Software Engineering II	2
CHOICE	Mathematics/Science Choice	3
Total Credits		16

DISCOVER Core Curriculum

*Major Requirements

Total Credits to Graduate: 123

Updated Spring 2025