



Southwest Baptist UNIVERSITY

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

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

UNI 1121	Reasoning: Introduction to Critical Thinking	1
ENG 2213 or ENG 3813	Communication: English Composition II or Professional Writing and Editing	3
CIS 1144	Computer Science I	4
MAT 1173	Discrete Mathematics	3
MAT 2255	Calculus II	5
Total Credits		16

SOPHOMORE - FALL SEMESTER

ECO 2023	Society: Principles of Microeconomics	3
DISCOVER	Values: (Cultural Awareness Options)	2
DISCOVER	Values: (Spiritual Formation Options)	2
CIS 1154	Computer Science II	4
MAT 2263	Calculus III	3
MAT 3323	Linear Algebra	3
Total Credits		17

SOPHOMORE - SPRING SEMESTER

DISCOVER	Communication: (Communication Options)	3
DISCOVER	Discipline: (Discipline Options)	3
CIS 2012	Networking and Cloud Computing	2
CIS 2213	System Analysis and Design	3
CIS 3333	Algorithms and Data Structures	3
MAT 3332	Symbolic Logic and Set Theory	2
Total Credits		16

JUNIOR - FALL SEMESTER

BIB 1013	Values: Old Testament History	3
CIS 3323	Database Management Systems Design	3
CIS 3412	Machine Organization	2
CIS 3423 or CIS 4433	Programming Languages or Numerical Methods	3
MAT 3343	Mathematical Statistics	3
CHOICE	Mathematics/Science Choice	2
Total Credits		16

JUNIOR - SPRING SEMESTER

BIB 1023	Values: New Testament History	3
DISCOVER	Inquiry: (CS/Math Inquiry Options)	4
CIS 2253	Full Stack Web Development	3
CIS 4423	Operating Systems	3
MAT 3313 or CHOICE	Abstract Algebra or Mathematics/Science Choice	3
Total Credits		16

SENIOR - FALL SEMESTER

DISCOVER	Enrichment: (Enrichment Options)	3
CIS 3423 or CIS 4433	Programming Languages or Numerical Methods	3
CIS 4462	Applied Software Engineering I	2
MAT 4663	Advanced Calculus	3
SCF 3422	Math Through the Eyes of Faith	2
Total Credits		13

SENIOR - SPRING SEMESTER

DISCOVER	Society: (American Studies Options)	3
BUS 4031	Professional Development	1
BUS 4041	Ethics Seminar	1
CIS 4472	Applied Software Engineering II	2
MAT 3313 or CHOICE	Abstract Algebra or Mathematics/Science Choice	3
CHOICE	Computer Science Choice	3
Total Credits		13

DISCOVER Core Curriculum

Total Credits to Graduate: 122

Updated Spring 2024