



BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

FRESHMAN – FALL SEMESTER

CIS 1033	Foundations of Computer Science	3
CIS 1144	Computer Science I	4
MAT 1195	Calculus I	5
UNI 1111	University Seminar	1
	Gen Ed or Graduation Requirement	3
<i>Total hours</i>		16

FRESHMAN – SPRING SEMESTER

CIS 1154	Computer Science II	4
CIS 1163	Introduction to Cybersecurity	3
MAT 1173	Discrete Mathematics	3
UNI 1121	Critical Thinking	1
	Gen Ed or Graduation Requirement	3
	Ged Ed or Graduation Requirement	3
<i>Total hours</i>		16

SOPHOMORE – FALL SEMESTER

CIS 2013	Networks	3
CIS 2213	Systems Analysis and Design	3
MAT 3343	Mathematical Statistics	3
ECO 2023	Microeconomics	3
	Gen Ed Science with lab	4
<i>Total hours</i>		16

SOPHOMORE – SPRING SEMESTER

CIS 3333	Algorithms and Data Structures	3
CIS 3553	Software QA and Testing	3
MAT 4343	Mathematical Statistics II	3
LDR 4043	Ethics & Prof. Dev.	3
	Gen Ed science with lab	4
<i>Total hours</i>		16

JUNIOR – FALL SEMESTER

CIS 3313	Advanced System Analysis & Design	3
CIS 3323	Database Management	3
CIS 3413	Machine Organization	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	2
<i>Total hours</i>		17

JUNIOR – SPRING SEMESTER

CIS 3123	Data Science	3
CIS 4423	Operating Systems	3
MAT 3332	Symbolic Logic & Set Theory	2
MAT 3473	Analysis of Variance	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	2
CIS 4981	Internship in Computing	1
<i>Total hours</i>		17

SENIOR – FALL SEMESTER

CIS 4462	Applied Software Engineering I	2
MAT 3323	Linear Algebra	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
CIS 4981	Internship in Computing	1
<i>Total hours</i>		15

SENIOR – SPRING SEMESTER

CIS 4472	Applied Software Engineering II	2
CIS 3033	Secure Software	3
CIS 3433	AI and Machine Learning	3
LDR/MGT	Elective, 2000-level or above	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or CS/MAT elective	3
CIS 4981	Internship in Computing	1
<i>Total hours</i>		15

THIS IS A PROPOSED GUIDELINE. Please check the catalog and see your advisor for your final degree requirements.

Southwest Baptist University reserves the right to make changes to degree plans without advanced notice or obligation.

The student is responsible for understanding and completing all general education, degree, departmental and graduation requirements.