



## BACHELOR OF SCIENCE IN DATA SCIENCE

### FRESHMAN – FALL SEMESTER

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

### FRESHMAN – SPRING SEMESTER

CIS 1154	Computer Science II	4
MAT 1173	Discrete Mathematics	3
UNI 1121	Introduction to Critical Thinking	1
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	2
<i>Total hours</i>		16

### SOPHOMORE – FALL SEMESTER

CIS 1163	Personal Cybersecurity	3
CIS 2253	Web Engineering	3
MAT 3343	Mathematical Statistics	3
	Gen Ed or Graduation Requirement	3
	Gen Ed Science with Lab	4
<i>Total hours</i>		16

### SOPHOMORE – SPRING SEMESTER

CIS 3123	Survey of Data Science	3
CIS 3333	Algorithms and Data Structures	3
MAT 3473	Analysis of Variance	3
	Gen Ed or Graduation Requirement	3
	Gen Ed science with lab	4
<i>Total hours</i>		16

### JUNIOR – FALL SEMESTER

CIS 3323	Database Management	3
CIS 4523	Programming Analytics	3
MAT 3323	Linear Algebra	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
LDR	Professional Development	1
<i>Total hours</i>		16

### JUNIOR – SPRING SEMESTER

CIS 2213	System Analysis and Design	3
CIS 3433	AI and Machine Learning	3
MAT 4343	Mathematical Statistics II	3
	Gen Ed or Graduation Requirement	3
	Gen Ed or Graduation Requirement	3
LDR 4041	Ethics Seminar	1
<i>Total hours</i>		15

### SENIOR – FALL SEMESTER

CIS 4462	Applied Software Engineering I	2
CIS 2033	Information Assurance	3
CIS 3513	Data Visualization	3
	Gen Ed or Graduation Requirement	2
ECO 2023	Microeconomics	3
<i>Total hours</i>		13

### SENIOR – SPRING SEMESTER

CIS 4472	Applied Software Engineering II	2
CIS 4533	Mathematical Data Modeling	3
	Gen Ed or Graduation Requirement	3
	Free Electives	4
<i>Total hours</i>		12

*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.