



BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

FRESHMAN – FALL SEMESTER

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

FRESHMAN – SPRING SEMESTER

CIS 1154	Computer Science II	4
MAT 2255	Calculus II	5
MAT 1173	Discrete Mathematics	3
UNI 1121	Critical Thinking	1
	Gen Ed or Graduation Requirement	3
<i>Total hours</i>		<i>16</i>

SOPHOMORE – FALL SEMESTER

CIS 1163	Introduction to Cybersecurity	3
CIS 2213	Systems Analysis and Design	3
MAT 2263	Calculus III	3
ECO 2023	Microeconomics	3
	Gen Ed or SC/MAT elective	3
	Gen Ed or Graduation Requirement	2
<i>Total hours</i>		<i>17</i>

SOPHOMORE – SPRING SEMESTER

CIS 2013	Networks	3
CIS 3333	Algorithms and Data Structures	3
MAT 3332	Symbolic Logic and Set Theory	2
LDR 4043	Ethics and Professional Development	3
	Gen Ed science with lab	4
	Gen Ed or Graduation Requirement or MAT elective	2
<i>Total hours</i>		<i>17</i>

JUNIOR – FALL SEMESTER

CIS 4433	Numerical Methods	3
MAT 3323	Linear Algebra	3
MAT 3343	Probability and Statistics	3
PHY 2215	University Physics	5
	Gen Ed or CS/MAT elective	3
<i>Total hours</i>		<i>17</i>

JUNIOR – SPRING SEMESTER

CIS 3323	Database Management	3
CIS 3353	Survey of Programming Languages and Artificial Intelligence	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or Grad Req or MAT elective	2
<i>Total hours</i>		<i>17</i>

SENIOR – FALL SEMESTER

CIS 4462	Applied Software Engineering I	2
CIS 3413	Machine Organization	3
MAT 4663	Advanced Calculus	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or Grad Req or MAT elective	2
<i>Total hours</i>		<i>16</i>

SENIOR – SPRING SEMESTER

CIS 4472	Applied Software Engineering II	2
CIS 4423	Operating Systems	3
MAT 3313	Abstract Algebra	3
	Gen Ed or CS/MAT elective	3
	Gen Ed or CS/MAT elective	3
<i>Total hours</i>		<i>14</i>

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.