

Southwest Baptist University

BOLIVAR, MO | EST. 1878

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 Grad Requirement	3
<i>Total hours</i>		<i>16</i>

FRESHMAN – SPRING SEMESTER

CIS 1154	Computer Science II	4
CIS 1001	Computer Science Seminar	1
MAT 2255	Calculus II	5
MAT 1173	Discrete Mathematics	3
UNI 1121	Critical Thinking	1
	Gen Ed or Grad Requirement	3
<i>Total hours</i>		<i>17</i>

SOPHOMORE – FALL SEMESTER

CIS 2233	Machine Organization	3
ECO 2023	Microeconomics	3
MAT 2263	Calculus III	3
PHY 2215	University Physics	5
	Gen Ed or Grad Req [KIN/SOC/SPF]	2
<i>Total hours</i>		<i>16</i>

SOPHOMORE – SPRING SEMESTER

CIS2213	Systems Analysis & Design	3
MAT3313	Abstract Algebra	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Req [BIO]	4
<i>Total hours</i>		<i>16</i>

JUNIOR – FALL SEMESTER

CIS 3333	Algorithms and Data Structures	3
CIS 4433	Adv. Discrete Math & Numerical Methods	3
MAT 4663	Advanced Calculus	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Req [KIN/SOC/SPF]	2
<i>Total hours</i>		<i>17</i>

JUNIOR – SPRING SEMESTER

CIS 3323	Database Management	3
	CIS Elective	3
CIS 3353	Survey of Programming Languages & AI	3
MAT 3323	Linear Algebra	3
	Gen Ed or Grad Req [KIN/SOC/SPF]	2
MAT 4483	Contemporary Geometry	3
<i>Total hours</i>		<i>17</i>

SENIOR – FALL SEMESTER

CIS 4462	Applied Software Engineering I	2
MAT 3343	Probability and Statistics	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Requirement	3
	Gen Ed or Grad Requirement	3
MAT 3332	Symbolic Logic and Set Theory	2
<i>Total hours</i>		<i>16</i>

SENIOR – SPRING SEMESTER

CIS 4472	Applied Software Engineering II	2
CIS 4443	Networks	3
CIS 4423	Operating Systems	3
LDR 4043	Ethics and Professional Development	3
	Gen Ed or Grad Requirement	3
MAT 3353	Integrated Mathematics	3
<i>Total hours</i>		<i>17</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.