

Data Analytics

Bachelor of Science Degree

Stephen F. Austin State University

(Effective Fall 2022)



Year 1	Fall Semester			Spring Semester		
	CSCI 1302	Computer Science Principles	3	CSCI 1462	Introduction to Data Analytics	4
	MATH 2211	Precalculus A & Lab (MATH 2011)	2	CSCI 2302	Computer Programming Principles	3
	MATH 2212	Precalculus B & Lab (MATH 2012)	2	ENGL 2311	Technical and Scientific Writing ^(1.I)	3
	ENGL 1301	Rhetoric & Composition	3	MATH 2313	Calculus I & Lab (MATH 2113)	4
	HIST 1301	U.S. History I	3	HIST 1302	U.S. History II	3
	SFAS 1101	Student Success (Elective)	1			
	Total Hours		14	Total Hours		17
Year 2	Fall Semester			Spring Semester		
	CSCI 2311	Event Driven Programming	3	CSCI 3302	Data Structures	3
	CSCI 3333	Discrete Structures	3	Elective	Advanced MATH/CSCI/CSIT/STAT	3
	MATH 2314	Calculus II & Lab (MATH 2114)	4	MATH 3325	Computational Linear Algebra	3
	ENGL 1302	Research & Argument	3	SPCH 1315	Public Speaking ^(1.A)	3
	Core	Life & Physical Sciences ^(1.C)	4	Core	Life & Physical Sciences ^(1.C)	4
	Total Hours		17	Total Hours		16
Year 3	Fall Semester			Spring Semester		
	CSCI 4325	Database Management Systems	3	CSCI 3362	Data Analytics 1	3
	MATH 3340	Probability Modeling ⁽²⁾	3	CSCI 3342	Algorithm Analysis	3
	GOVT 2305	Federal Government	3	GOVT 2306	Texas Government	3
	Core	Creative Arts ^(1.E)	3	Elective	General Elective	3
	Core	Social & Behavioral Science ^(1.H)	3	Elective	General Elective	3
	Total Hours		15	Total Hours		15
Year 4	Fall Semester			Spring Semester		
	CSCI 4362	Data Analytics 2	3	CSCI 4111	Ethics in Computer Science	1
	Elective	Advanced MATH/CSCI/CSIT/STAT	3	CSCI 4365	Capstone Project in Data Analytics	3
	Core	Language, Philosophy, & Culture ^(1.D)	3	Elective	Advanced MATH/CSCI/CSIT/STAT	3
	Elective	General Elective	4	Elective	General Elective	3
				Elective	General Elective	3
	Total Hours		13	Total Hours		13
Total Program Hours			120			

Note: Students will be required to repeat pre-requisite courses when the grade is below a C. A minimum of 42 semester hours of work must be completed at
(1.A) Alternative Options Include: SPCH 1318, 2333

(1.C) Options Include: ASTR 1303/1103; BIOL 1307/1107, 1308/1108, 1309/1109, 2301/2101; CHEM 1305/1105, 1311/1111, 1312/1112; GEOL 1303/1103, 1304/1104; PHYS 1305/1105, 1307/1107, 1310/1110, 1301/1101 or 2325/2125, 1302/1102 or 2326/2126

(1.D) Options Include: ENGL 2309, 2322, 2323, 2327, 2328, 2332, 2333, 2335, 2341; HIST 2311, 2312, 2321, 2322; PHIL 1301, 1304, 2306

(1.E) Options Include: ARTS 1301, 1303, 1304; DANC 2303; MUMH 1307; MUSI 1306; DRAM 1310, 2366

(1.H) Options Include: ANTH 2351; ECON 2301, 2302; FORS 2351; GEOG 1303; MCOM 1307; PSYC 2301; SOCI 1301

(1.I) Alternative Options Include: BUSI 2304; FREN 1311, 1312; GERM 1311, 1312; INCM 1301-1305; PORT 1311, 1312; SGNL 1301, 1302; SPAN 1311, 1312

(2) Alternative Option Include: STAT 3342

Revised: MAB 10/27/22