Computer Science, Bachelor of Science Degree
Cyber Security, Master of Science Degree - Internship Track
Stephen F. Austin State University

Year 1

Fall Semester			Spring Semester		
CSCI 1302	Computer Science Principles	3	CSCI 2302	Computer Programming Principles	3
MATH 2211	Precalculus A & Lab (MATH 2011)	2	CSCI 2311	Event Driven Programming	3
MATH 2212	Precalculus B & Lab (MATH 2012)	2	MATH 2313	Calculus I & Lab (MATH 2113)	4
ENGL 1301	Rhetoric & Composition	3	ENGL 1302	Research & Argument	3
HIST 1301	U.S. History I	3	HIST 1302	U.S. History II	3
Core	Language, Philosophy, & Culture [1.D]	3			
	Total Hours	16		Total Hours	16

Year 2

Fall Semester			Spring Semester		
CSCI 3302	Data Structures	3	CSCI 1462	Introduction to Data Analytics	4
Elective	Advanced CSCI [5] (3331 Recommended)	3	CSCI 3321	Client Server Web Programming	3
MATH 2314	Calculus II & Lab (MATH 2114)	4	MATH 3325	Computational Linear Algebra [2]	3
Core	Life & Physical Sciences [1.C]	4	Core	Life & Physical Sciences [1.C]	4
	Total Hours	14		Total Hours	14

Year 3

Fall Semester			Spring Semester			Summer		
CSCI 2314	Computer Organization & Architecture	3	CSCI 3341	Principles of Operating Sytems	3	Core	Social & Behavioral Science [1.H]	3
CSCI 3333	Discrete Structures	3	CSCI 3342	Algorithm Analysis	3	Core	Creative Arts [1.E]	3
GOVT 2305	Federal Government	3	Elective	General Elective (3362 Recommended)	3			
SPCH 1315	Public Speaking [1.A]	3	GOVT 2306	Texas Government	3			
ENGL 2311	Technical and Scientific Writing [1.I]	3	Elective	General Elective	3			
	Total Hours	15		Total Hours	15		Total Hours	6

Year 4

Fall Semester			Spring Semester			Summer		
CSCI 3323	Software Engineering	3	CSCI 4260/4270	Senior Design 1 & 2	4	Elective	Graduate STAT [6]	3
CSCI 4341	Formal Languages	3	CSCI 4335	Computer Networking	3	Elective	Graduate STAT [6]	3
CSCI 4342	Organization of Programming Languages	3	CSCI 4347	Cyber Security	3			
Elective	General Elective	3	CSCI 4111	Ethics in Computer Science	1			
CSCI 5312	Web Security	3	Elective	General Elective	1			
CSCI 5322	Defensive Coding and Security	3	CSCI 5345	Reverse Engineering	3			
	Total Hours	18		Total Hours	15		Total Hours	6

Year 5

Fall Semester			Spring Semester		
CSCI 5362	Penetration Testing	3	CSCI 5185	Internship in Cyber Security	3
Elective	Graduate CSCI [7]	3	CSCI 5348	Digital Forensics	3
Elective	Graduate CSCI [7]	3	Elective	Graduate CSCI [7]	3
			Elective	Graduate CSCI [7]	3
	Total Hours	9		Total Hours	12

Total Program Hours	120 + 36 = 156

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 SFA, of which at least 36 hours must be advanced. A maximum of 66 academic hours plus 4 hours of kinesiology activity from junior/community colleges may apply towards a bachelor's degree. Contact your SFA advisor for alternative courses to the core courses listed.

(1.A) Alternative Options Include: SPCH 1318, 2333

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

(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 Options Include: MATH 3315, 3320, 3330, 3340, 3345, 3360, 3365, 3370, 4320

(5) A maximum of 3 advanced hours may be used from internship courses CSIT 3185 and CSCI 3185.

(6) Elective graduate level (5000+) course in statistics.

(7) Options include: CSCI 5313, 5320, 5324, 5347, 5360, 5363, 5365, 5175, 5185 (maximum of 3 hours)