

B.S. in Computer Science

* Select one lecture course and one lab combination from the following list: BIO 120 and 120L, or CHM 110 and 110L, or PS 224 and PS 224L, or PS 226 and 226L, or PS 250 and PS 253.

** CEC/CS/EE/SE/SYS Upper-Level Elective, with approval from program coordinator.

B.S in Computer Science – Cybersecurity Engineering AOC

Students should be aware that several courses in each academic year may have prerequisites and/or corequisites (check the course descriptions before registering for classes to ensure requisite sequencing).

See the Common Year One outline in the Engineering Fundamentals Program Introduction.

Suggested Plan of Study

Year One

	Credits
See the Common Year One outline in the College of Engineering introduction.	33
Credits Subtotal	33.0

Year Two

CEC 220	Digital Circuit Design	3
CEC 222	Digital Circuit Design Laboratory	1
	HU/SS Lower Level	3
COM 219	Speech	3
SE 300	Software Engineering Practices (with Lab)	3
CYB 155	Foundations of Information Security	3
CEC 320	Microprocessor Systems	3
CEC 322	Microprocessor Systems Laboratory	1
COM 221	Technical Report Writing	3
CS 344	C Programming and UNIX	3
	Physical and Life Sciences *	4
Credits Subtotal		30.0

Year Three

CS 362	Computing Theory	3
CS 315	Data Structures and Analysis of Algorithms	3
CS 332	Organization of Programming Languages	3
CS 420	Operating Systems	3
MA 412	Probability and Statistics	3
	Humanities or Social Science Upper Level Elective	3
CS 303	Cryptography and Network Security	3
CS 317	Files and Database Systems	3
CYB 465	Cybercrime and Cyberlaw	3
	Technical Elective **	3
Credits Subtotal		30.0

Year Four

CEC 470	Computer Architecture	3
CS 462	Computer Networks	3
CS 426	Digital Forensics	3
CS 490	Computer Science Capstone Design I	3
CS 432	Information and Computer Security	3
CS 427	System Exploitation and Penetration Testing	3
CS 491	Computer Science Capstone Design II	3
CS 428	Applied Cryptography	3
	Technical Elective **	3
Credits Subtotal		27.0
Credits Total:		120