



LONG RANGE PLAN

Name

A#

Career Goals

Major

Minor

Concentration

CYB Cyber Operations Technology

FA - Fall ONLY

SP - Spring ONLY

Credits Complete

Fall (Calhoun)		2024	
Course	ALL	300+	
MTH 125/ Calculus I	4		
CIS 134/ IT Fundamentals	3		
ENG 101/ English Comp I	3		
ORI 110 Freshman Seminar	1		
ECO 231/ Principles of Macroeconomics	3		
semester total	14	0	

Spring (Calhoun)		2025	
Course	ALL	300+	
BUS 271/ Business Statistics I	3		
CIS 202/ Python Programming	3		
ENG 102/ English Comp II	3		
CIS 263 Computer Maintenance or Fine Art if CYB	3		
CIS 171/ Linux I	3		
semester total	15	0	

Summer		2025	
Course	ALL	300+	
semester total	0	0	
year total	29	0	

Fall (Calhoun)		2025	
Course	ALL	300+	
CIS 251/ C++ Programming	3		
CIS 270/ Cisco CCNA I	3		
CIS 282 Computer Forensics	3		
History (HIS 101/102/121/122/202/202)	3		
Literature (ENG 251/252/261/262)	3		
semester total	15	0	

Spring (Calhoun)		2026	
Course	ALL	300+	
CIS 271-272/ CCNA II & III (mini mester courses)	6		
CIS 280/ Network Security	3		
CIS 267/ Enterprise Virtualization (VMware VCP-DCV) or CIS 276/ Server Administration	3		
Second history or literature sequence course	3		
semester total	15	0	

Summer (UAH)		2026	
Course	ALL	300+	
can only transfer 60 hours max			
semester total	0	0	
year total	30		

Fall		2026	
Course	ALL	300+	
Ethics Course - Choose 1: PHL 102/ Intro to Ethics or PHL 150/ Tech, Science, and Human Values	3		
Lab Sci Seq 1: BYS 119&121/ Principles of Biology or BYS 120 & 122/Organismal Biology or CH 121&125/ Gen Chemistry I or PH 111&114 Physics w/Calc I or AES103&L/ Environmental Earth Sci or AES 104 & 104L/Weather & Climate Change	4		
CYB 201/ C++ Data Structures	3		

Spring		2027	
Course	ALL	300+	
CYB 311/ Basic HW and Assembly Language	3	3	
Lab Sci Seq 2: BYS 119&121/ Principles of Biology or BYS 120 & 122/Organismal Biology or CH 121&125/ Gen Chemistry I or PH 111&114 Physics w/Calc I or AES103&L/ Environmental Earth Sci or AES 104 & 104L/Weather & Climate Change	4		
CYB 411/ Database Systems	3	3	

Summer		2027	
Course	ALL	300+	

CYB 305/ Discrete Math and Algorithms	3	3	EH 301/ Technical Writing	3	3			
General Elective	3		Social/Behavioral Science/Humanities	3				
semester total	16	3	semester total	16	9	semester total	0	0
						year total	32	12
Fall 2027			Spring 2028			Summer 2028		
Course	ALL	300+	Course	ALL	300+	Course	ALL	300+
CYB 409/ Basic Operating Systems	3	3	CYB 452/ Web Security & Cloud	3	3			
CYB 415/ Basic Cybersecurity	3	3	300 Level Elective +	3	3			
CYB 416 Network Based Security	3	3	Fine Art if not taken already or General Elective (2 hours)	2				
CYB 461/ Cellular and Mobile Technologies or CYB 471/ Malware Analysis	3	3	CYB 462/ Advanced Digital Forensics or CYB 472/ Malware Analysis II	3	3			
300+ Level Elective	3	3	Social/Behavioral Science	3				
semester total	15	15	semester total	14	9	semester total	0	0
						year total	29	24
				ALL	300+			
				Total Credit Hours	120	36	FA - Fall ONLY	
					(120)	(36)	SP - Spring ONLY	
Updated By: Terri Johnson								
Notes: If the student does not take CIS 263, they need only 2 hours of general electives and a total of 120 credit hours. This LRP gives the student 47 of the required 64 hours for A.A.S in Cybersecurity/IT . It also gives them 59 total hours at Calhoun. A student at Calhoun focusing on the A.A.S degree could choose to take 9 more hours of CIS classes instead of their Charger Foundation courses at Calhoun. But taking these courses would mean they need more than 120 hours to graduate. This LRP assumes the student starts in Calculus 1. If they start at a lower math class. that will use up some of the elective credits.								
Charger Foundation (CF) & General Elective courses			Classes that are required for graduation and easily shifted around other courses. Offered in every semester.					
General Elective			General Electives can be ANY course offered for credits toward your minimum total. Course Descriptions will help you choose.					
Apply to graduate by Sept 1st for Spring by Feb 1st for Summer by June 1st for Fall								
Graduation checklist and araduation application: https://www.uah.edu/registrar/commencement/checklist								