Information Technology & Cybersecurity, BSITC

Graduation Planning Strategy (GPS) 2020-2021

Name & UID: _____

WRIGHT STATE UNIVERSITY | **COMPUTER SCIENCE AND ENGINEERING**

Program Total: 120

Year One

* Minimum grade of C required

		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall CS1180/L* OR	IW				Computer Science I	MPL 40 or MTH1280	DE	DE	D
CS1160/L* OR		4			Intro to Computer Programming	MPL30 or MTH1280 or MTH1450 or MTH2410 or STT1600 or STT2640	D	D	
CEG2170/L*					Intro to C Programming for Scientists & Engineers	MTH1280 or MPL40	D	D	
ENG1100*		3			Academic Writing & Reading		D	D	D
CS1150/L		4			Intro to Computer Science	None	D	D	
CS1030		1			Survey of CS & CEG	Freshman Status Only (Recommended General Elective)	D		
		3			WSU Core	Suggested Element Global Traditions History			
Spring EGR1900		1			Exploring Engineering Internships	None (Recommended General Elective)	D	D	
CEG2350/L*		4			Operating System Concepts & Usage	CS1160 or CS1180 or CEG2170	D	D	
CS1000		3			Technology & Society	None	W	W	W
CS2800		3			Web Development I	CS1160 or CS1180 or CEG2170	D	D	
MTH2240* OR					Applied Calculus	MPL40 or MTH1280	DE	D	
MTH2280* OR					Business Calculus	MPL40 or MTH1280	DE	D	
EGR1010/L/R* OR		4			Introductory Mathematics for Engineering Apps	MTH1350 or MTH2300 or MPL40	D	D	
CS2200*/R					Discrete Structures & their Algorithms	CS1200* or MPL40 or MTH1280	D	D	

Total Credit Hours **15 15**

Make Full Major Admission Appointment with your advisor after successfully completing ENG1100, CS1180 or CS1160 or CEG2170, CEG2350, MTH2240 or MTH 2280 or EGR1010 or CS2200 with a with a grade of C or above; a Wright State University 2.25 GPA and 24 or more semester hours.

Year Two

Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall STT1600		4			Statistical Concepts	MPL21 or DEV0970 or DEV0600 (can be taken Concurrently) or DEV0270	DE	D	
CEG2400		3			Intro to PC Networking	CS1150 or CS1160 or CS1180 or CEG2170	E		
CEG3400		3			Into to Cyber Security	CS1160* or CS1180* or CEG2170*	D	D	
EGR3350 OR	FM				Tech Communication for Egr & CS	ENG1100 or ENG1110 or ENG1130 or ENG11140	D	D	DE
ENG2140		3			Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)	D	D	
		3			Wright State Core	Suggested Element Arts & Humanities			
Spring CEG2410		3			Systems Administration	CEG2400 and CEG2350		D	
		4			Natural Science	see Uachieve report			
		1			General Elective	KNH recommended			
		3			Wright State Core	Suggested Element Social Science			
CS3700		3			Introduction to Oracle/SQL Databases	CS1180 or CS1160 or CEG2170	E	D	

Total Credit Hours **16 14**

Year Three

Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall		3			General Elective				
		3			Wright State Core	Suggested Element Social Science			
		3			2000/3000 - level CS/CEG Technical Elective				
CS3170		3			Mobile Application Development	CEG2350	D		
		3			2000/3000 - level CS/CEG Technical Elective				
Spring CEG3410		3			Intro to Digital Forensics	(CS1160 or CS1180 or CEG2170) and CEG2400		D	
CEG4424	FM	3			Security Attacks & Defenses	CEG4350 (can be taken concurrently) or CEG3400		DW	
		3			General Elective				
		3			Wright State Core	Additional Core			
		3			2000/3000 - level CS/CEG Technical Elective	Can take CS1181 (IW)			

Total Credit Hours **15 15**

Make a Senior Check appointment with the department for permission to register for CEG4980 Team Projects I. Apply for Graduation

Year Four

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall	CEG4980	FM	3			Team Projects I	(CS3100* and (EGR3350 or ENG2140) or (CEG3400 and CS3170 and (EGR3350 or ENG2140)) and Department Permission	D	D	
			3			2000/3000 - level CS/CEG Technical Elective				
			3			General Elective				
			3			General Elective				
	CEG4430	FM	3			Cyber Network Security	CS3100 or CEG3410	DW		
Spring		FM	3			4000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				
	CEG4981	FM	3			Team Projects II	CEG4980	D	D	
			3			General Elective				
			3			General Elective				

Total Credit Hours 15 15

D	Day
E	Evening
W	Web Only
FM	Full Major Status

Natural Science (8 credit hours)

CS 1150 (required) , ATH 2100, BIO 1050, 1060, 1070, 1120, 1150, 3450, CHM1020, 1050, 1060, 1070, 1210/1210L, 1220/1220L, 2450, EES 1030, 1050, 1060, 1070, 2510, 2550, 3450, KHN 2500, PHY 1050/1050L, 1060/1060L, 2400/2400L, 2410/2410L, SM 1010

A minimum of two core courses must be designated as MC and IW. A minimum of two courses in the major must be IW.

Computer Science or Computer Engineering Tech Electives (18 credit hours) 12 credit hours of 2000/3000 level and 6 credit hours of 4000 level classes from CS or CEG Some technical electives require additional pre-requisites please check specific course descriptions. CS 1181 accepted as a lower level elective

General Electives (21 credit hours) General Elective courses may be any course taken for credit. Can use 2 crdt hrs of KNH for General Elective

Notes

If you are interested in the MS Cyber Security degree CEG 3310/L, CS 3100, and CEG 4350 are required. They may be taken as Tech Electives.

CONSULT uAchieve for complete and updated course listings