

Computer Science, BSCS

Graduation Planning Strategy (GPS) 2022-2023

Name & UID: _____



**COMPUTER SCIENCE
AND ENGINEERING**

Program Total: 120

Year One

* Minimum grade of C required

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall	CS1180/L*	IW	4			Computer Science I	MPL40 or MTH1280	DE	DE	D
	ENG1100*		3			Academic Writing and Reading		D	D	D
	CS2200/R* OR MTH2570*		4			Discrete Structures & their Algorithms	CS1200* or WMPL40	D	D	
						Discrete Mathematics for Computing	MTH 1280 or MPL40	D		
	CS1030		1			Survey of CS and CEG	Freshman status only (Recommended General Elective)	D		
			3		Wright State Core	Suggested Element Global Traditions History				
Spring	CS1181/L*	IW	4			Computer Science II	CS1180* and (MTH1280 or MPL40)	D	DE	D
	MTH2300		4			Calculus I	MPL50 or MTH1350	DE	D	D
	EGR1900		1			Exploring Engineering Internships	None (Recommended General Elective)	D	D	
	CEG2350/L		4			Operating System Concepts and Usage	CS1160 or CS1180 or CEG2170	D	D	
	CS1000		3			Technology & Society	None	W	W	W
Total Credit Hours								15	16	

Make Full Major Admission Appointment with your advisor after successfully completing ENG1100, CS1180, CS1181, and MTH2570 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	CEG3310/L*		4			Computer Organization	CS1181* or (CEG2170* and (CEG3320 or EE2000()))	D	D	D
			4			Natural Science Class I	see back and uAchieve for list			
	MTH2310		4			Calculus II	MTH2300	DE	D	D
			3			3000 - level CS/CEG Technical Elective				
Spring	CS3100*		3			Data Structures & Algorithms	CS1181* and CEG3310* and (MTH2570 or CS 2200)	D	DE	D
			4			Natural Science Class I	see back and uAchieve for list			
	EGR3350 OR ENG2140		3			Technical Communications for Egr & CS	ENG1100 or ENG1110 or ENG1130 or ENG1140	D	D	DE
						Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)			
	MTH2530		3			Elementary Linear Algebra	MTH2300	D	D	D
			3		Wright State Core	Suggested Element Arts & Humanities				
Total Credit Hours								15	16	

Year Three

* Minimum grade of C required

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall	CS3200 OR CS2210	FM	3			Theoretical Foundations of Computing	CS3100*	D		
		FM				Logic for Computer Scientists	MTH2570 or CS2200	D	D	
			3			General Elective				
	CEG4350	FM	3			Operating System Internals & Design	CS3100* and CEG3310* and CEG2350	D	D	
	ISE2211 OR STT3600		3			Statistics for Engineers	EGR1010 or MTH2300	D	D	D
						Applied Statistics I	MTH2310 (can be taken concurrently)	D		
			3		Wright State Core	Suggested Element Social Science				
Spring	CEG4110	IW FM	3			Intro to Software Engineering	CS3100*	D	E	
			3			General Elective				
			3			3000 - level CS/CEG Technical Elective				
		FM	3			4000-levelCS/CEG Technical Elective				
			3		Wright State Core	Suggested Element Social Science				
Total Credit Hours								15	15	

Year Four

* Minimum grade of C required

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall	CEG4980	IW FM	3			Team Projects I	(CS3100* and (EGR3350 or ENG2140) or (CEG3400 and CS3170 and (EGR3350 or ENG2140)) and Department Permission	D	D	
		FM	3			4000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				
			1			General Elective KNH recommended				
	CS3180	FM	3			Comparative Languages	CS3100*	D	D	
Spring		FM	3			4000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				
	CEG4981	FM	3			Team Projects II	CEG 4980	D	D	
			3			Wright State Core	Suggested Element Additional Core			
			3			General Elective				

Total Credit Hours 13 15

D	Day
E	Evening
W	Web Only
FM	Full Major Status

Natural Science (8 credit hours)

CHM1210/L, CHM1220/L, BIO1120, BIO1150, PHY2400/L, PHY2410/L, EES2510, EES2550

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 (21 credit hours) 6 credit hours of 3000 level and 15 credit hours of 4000 level classes from CS or CEG Some technical electives require additional pre-requisites please check specific course descriptions.

General Electives (12 credit hours) General Elective courses may be any course taken for credit. Can use 2 crdt hrs of KNH for General Elective

Notes

CONSULT uAchieve for complete and updated course listings