

Computer Science, BACS

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	ENG1100*		3			Academic Writing & Reading		D	D	D
	CS1030		1			Survey of CS & CEG	Freshman status only (recommended General Elective)	D		
	CS1180/L*	IW	4			Computer Science I	MPL40 or MTH1280	DE	DE	D
			3			Wright State Core	Suggested Element Global Traditions History			
	CS2200/R* OR MTH2570*		4			Discrete Structures & their Algorithms Discrete Mathematics for Computing	CS1200* or WMPL40 MTH 1280 or MPL40	D	D	
Spring	CS1181/L*	IW	4			Computer Science II	CS1180* and (MTH1280 or MPL40)	D	DE	D
			3			General Elective				
	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

Total Credit Hours 15 15

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	DE	D
			4			Lab Natural Science I	See uAchieve for list			
	MTH2240 OR MTH2280		4			Applied Calculus Business Calculus	MPL40 or MTH1280 MPL40 or MTH1280	DE	D	
	CEG2400		3			Intro to PC Networking	CS1150 or CS1160 or CS1180 or CEG2170	E		
	Spring	CS3100*		3			Data Structures & Algorithms	CS1181* and CEG3310* and (MTH2570 or CS2200)	D	DE
			4			Lab Natural Science II	See uAchieve for list			
CS2800			3			Web Development I	CS1160 or CS180 or CEG2170	D	DE	
CS3700			3			Intro to Databases & Modeling	CS1180 or CS1160 or CEG2170	E	D	
			3			Wright State Core	Suggested Element Arts & Humanities			

Total Credit Hours 15 16

Year Three

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall			3			2000/3000 - level CS/CEG Technical Elective				
			3			2000/3000 - level CS/CEG Technical Elective				
	CEG4110	FM	3			Introduction to Software Engineering	CS3100*	D	E	
	STT2640		4			Elementary Statistics	(MPL 25 & DEV0270) or (MPL 25 & DEV0970) or DEV0990 or MPL 30	DE	D	
	EGR3350 OR ENG2140	FM	3			Technical Communications for Egr & CS Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG1130* or ENG1140* ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)	D	D	DE
			3			2000/3000 - level CS/CEG Technical Elective				
Spring		FM	3			4000 - level CS/CEG Technical Elective				
			3			Wright State Core	Suggested Element Social Science			
			3			Wright State Core	Suggested Element Social Science			
			3			General Elective				

Total Credit Hours 16 15

Year Four

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall			3			General Elective				
			3			Wright State Core	Suggested element Additional Core			
		FM	3			4000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				
		CEG3120		3		Intro to Design of Info Tech Systems	CEG2350	D	D	
Spring		FM	3			4000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				
			3			General Elective				
			3			General Elective				
			1			General Elective KNH recommended				

Total Credit Hours 15 13

D	Day
E	Evening
W	Web Only
FM	Full Major Status

Natural Science (8 credit hours)

ATH2100, BIO1050, 1060, 1070, 1120, 1150, CHM1020, 1050, 1060, 1070(IW), 1210 & 1210L, 1220 & 1220L, CS1150, EES1030, 1050, 1070, 2510, 2550, KHN2500, PHY1050 & 1050L, 1060 & 1060L, 2400 & 2400L, 2410 & 2410L, SM1010(IW)

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 (24 credit hours) 9 credit hours of 2000/3000 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 (18 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