

# Computer Science, BSCS

Graduation Planning Strategy (GPS) 2023-2024

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/L* 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 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	FM	3			Theoretical Foundations of Computing	CS3100*	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-level CS/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

<b>D</b>	<b>Day</b>
<b>E</b>	<b>Evening</b>
<b>W</b>	<b>Web Only</b>
<b>FM</b>	<b>Full Major Status</b>

**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**