

Computer Engineering, BSCEG

Graduation Planning Strategy (GPS) 2020-2021

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	
	ENG1100*		3			Academic Writing and Reading		D	D	D
	CS2200/L* OR		4			Discrete Structures & their Algorithms	CS1200* or MTH 1280 or MPL40	D	D	
	MTH2570*					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	DE	
	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
	PHY2400/L/R		5			General Physics I	EGR1010* or MTH2300	DE	DE	D
	MTH2310		4			Calculus II	MTH2300	DE	D	D
	CEG3320/L	IW	4			Digital System Design	CS1180 or CS1160 or CEG2170 and (MTH1280 or MPL40)	D	D	
Spring	CS3100*		3			Data Structures & Algorithms	CS1181* and CEG3310* and (MTH2570 or CS2200)	D	DE	D
	PHY2410/L/R		5			General Physics II	PHY2400 and MTH2300 and MTH2310 (2310 can be taken concurrently)	DE	DE	D
	MTH2350		4			Differential Equations with Matrix Algebra	MTH2310	DE	D	
	EGR3350 OR	FM	3			Technical Communications for Egr & CS	ENG1100 or ENG1110 or CNG1130 or ENG1140	D	D	DE
	ENG2140					Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)	D	D	

Total Credit Hours 17 15

Year Three

	Course		Cr	Sem	Grd	Course Name	Prerequisites	Fa	Sp	Su
Fall			4			Wright State Core	Suggested Element Additional core (Natural Science req'd)			
	CEG4330/L	FM	4			Microprocessor-Based Embedded Systems	CEG3320 or (EE2000 and CEG2170)	D	D	
	EE2010/L		4			Analog Circuit Theory	(ENG1100* or ENG1110* or ENG1130* or CNG1140*) and MTH2310* and PHY2410/L (PHY2410/L can be taken concurrently)	DE	DE	
	CEG4350	FM	3			Operating System Internals and Design	CS3100* and CEG3310*	D	D	
Spring	ISE2211 OR		3			Statistics for Engineers	EGR1010 or MTH2300	D	D	D
	STT3600					Applied Statistics I	MTH2310 (can be taken concurrently)	D		
	EE3210		3			Linear Systems I	EE2010* and (CEG2170* or CS1180* or MTH2310)	D	E	
			3			Wright State Core	Suggested Element Social Science			
		FM	3			4000 - level CS/CEG Technical Elective				

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	EE3310/L		4			Electronic Devices and Circuits	(EE2010/L* and MTH2300) or (EE2011/L* and MTH2240)	DE	DE		
	CEG4980	IW	3			Team Projects I	(CS3100* and (EGR3350 or ENG2140) or (CEG3400 and CS3170 and (EGR3350 or ENG2140)) and Department Permission	D	D		
		FM	3								
			FM	3			4000 - level CS/CEG Technical Elective				
				2			General Elective				
			3			Wright State Core	Suggested Element Social Science				
Spring			FM	3		4000 - level CS/CEG Technical Elective					
	CEG4981		FM	3		Team Projects II	CEG 4980	D	D		
				3			General Elective				
				3			Wright State Core	Suggested Element Arts & Humanities core			
Total Credit Hours								15	12		

D	Day
E	Evening
W	Web Only
FM	Full Major Status

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 (12 credit hours) 3 credit hours of 3000 level and 9 credit hours of 4000 level classes from CS or CEG Some technical electives require additional pre-requisites please check specific course descriptions.

General Electives (8 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.

CONSULT uAchieve for complete and updated course listings