Computer Engineering, BSCEG

Graduation Planning Strategy (GPS) 2023-2024

Name & UID: _____

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 WMPL40	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 OR EE 2000/L	IW	4			Digital System Design / Digital Design with HDL	CS1180 or CS1160 or CEG2170 and (MTH1280 or MPL40)	D D	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 (MTH2310 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 ENG1130 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 OR EE 4620/L	FM	4			Microprocessor-Based Embedded Systems / Digital Integrated Circuit design with PLDS & FPGAs	CEG3320 or (EE2000 and (CEG2170 or CS1160 or CS1180)) EE 2000/L C minimum or CEG 3320	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* and CEG2350	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			
			3			3000 - level CS/CEG Technical Elective				
		FM	3			4000 - level CS/CEG Technical Elective				

Total Credit Hours   15   15

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 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				
			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