Computer Science, BSITC

Graduation Planning Strategy (GPS) 2024-2025

WRIGHT STATE UNIVERSITY | COMPUTER SCIENCE AND ENGINEERING

Name & UID: _____

Program Total: 120

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 One

* Minimum grade of C required

Course		Cr	Semester	Grade	Course Name	Prerequisites
CS1180/L* OR CS1160/L* OR CEG2170/L*		4			Computer Science I	MPL 40 or MTH1280
					Intro to Computer Programming	MPL30 or MTH1280 or MTH1450 or MTH2410 or STT1600 or STT2640
					Intro to C Programming for Scientists & Engineers	MTH1280 or MPL40
ENG1100*		3			Academic Writing & Reading	
CS1150/L		4			Intro to Computer Science	None
EGR 1980		3			First Year Seminar	
CEG2350/L*		4			Operating System Concepts & Usage	CS1160 or CS1180 or CEG2170
CS1000		3			Technology & Society	None
CS2800		3			Web Development I	CS1160 or CS1180 or CEG2170
		3			General Elective	
MTH2240* OR MTH2280* OR EGR1010/L/R *OR CS2200*/R OR MTH2570* OR MTH 2300*		4			Applied Calculus	MPL40 or MTH1280
					Business Calculus	MPL40 or MTH1280
					Introductory Mathematics for Engineering Apps	MTH1350 or MTH2300 or MPL40
					Discrete Structures & their Algorithms	CS1200* or WMPL40
					Discrete Math	MTH 1280 Minimum Grade of D or MPL 40
					Calculus I	MPL 50 or MTH 1350

Total Credit Hours **31**

Year Two

Course		Cr	Semester	Grade	Course Name	Prerequisites
STT 1600 OR STT2640		4			Statistical Concepts	MPL 21 or DEV 600 or DEV 0270
					Elementary Statistics	(MPL 25 & DEV0270) or (MPL 25 & DEV0970) or DEV0990 or MPL 30
CEG2400		3			Intro to PC Networking	CS1150 or CS1160 or CS1180 or CEG2170
CEG3400*	FM	3			Into to Cyber Security	CEG2350
EGR3350 OR ENG2140		3			Tech Communication for Egr & CS	ENG1100 or ENG1110 or ENG1130 or ENG11140
					Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)
		3			Wright State Core	Suggested Element Arts & Humanities
CEG2410		3			Systems Administration	CEG2400 and CEG2350
		3			Natural Science	see Uachieve report
		3			Wright State Core	Suggested Element Social Science
CS3700		3			Introduction to Databases & Modeling	CS1180 or CS1160 or CEG2170

Total Credit Hours 28

Year Three

Course		Cr	Semester	Grade	Course Name	Prerequisites
		3			General Elective	
		3			Wright State Core	Suggested Element Social Science
		3			2000/3000 - level CS/CEG Technical Elective	
CS3170		3			Mobile Application Development	CEG2350
		3			2000/3000 - level CS/CEG Technical Elective	
CEG3410	IW FM	3			Intro to Digital Forensics	(CS1160 or CS1180 or CEG2170) and CEG2400
CEG4424		3			Security Attacks & Defenses	CEG4350 (can be taken concurrently) or CEG3400
		4			Wright State Core	Additional Core
		3			2000/3000 - level CS/CEG Technical Elective	Can take CS1181 (IW)
		3			Wright State Core	Suggested Element Social Science

Total Credit Hours 31

Year Four

Course		Cr	Semester	Grade	Course Name	Prerequisites
CEG4980	FM	3			Team Projects I	(CS3100* and (EGR3350 or ENG2140) or (CEG3400 and CS3170 and (EGR3350 or ENG2140)) and Department Permission
		3			2000/3000 - level CS/CEG Technical Elective	
		3			General Elective	
CEG4430	FM	3			Cyber Network Security	CS3100 or CEG3410
	FM	3			4000 - level CS/CEG Technical Elective	
	FM	3			4000 - level CS/CEG Technical Elective	
CEG4981	FM	3			Team Projects II	CEG4980
		3			General Elective	
		3			General Elective	
		3			General Elective	

Total Credit Hours 30

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 (18 credit hours) 12 credit hours of 2000/3000 level and 6 credit hours of 4000 level classes from CS or CEG. Students may also choose to take CS 1181 as a 2000-level tech elective Some technical electives require additional pre-requisites please check specific course descriptions.

General Electives (21 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