Computer Science, BACS

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
ENG1100*		3			Academic Writing & Reading	
CS1180/L*	IW	4			Computer Science I	MPL40 or MTH1280
EGR 1980		3			First Year Seminar	
CS2200/R* OR MTH2570*		4			Discrete Structures & their Algorithms	MPL40 or MTH1280
					Discrete Mathematics for Computing	MTH 1280 or MPL40
CS1181/L*	IW	4			Computer Science II	CS1180* and (MTH1280 or MPL40)
		3			Wright State Core	History Recommended
CEG2350/L		4			Operating System Concepts & Usage	CS1160 or CS1180 or CEG2170
CS1000		3			Technology & Society	None
		3			General Elective	Arts / Humanities Recommended

Total Credit Hours **31**

Year Two

Course		Cr	Semester	Grade	Course Name	Prerequisites
CEG3310/L*		4			Computer Organization	CS1181* or (CEG2170* and (CEG3320 or EE2000)
		4			Lab Natural Science I	See uAchieve for list
MTH2240 OR MTH2280 OR MTH 2300		4			Applied Calculus	MPL40 or MTH1280
					Business Calculus	MPL40 or MTH1280
					Calculus I	MPL 50 or MTH 1350
CEG2400		3			Intro to PC Networking	CS1150 or CS1160 or CS1180 or CEG2170
CS3100*		3			Data Structures & Algorithms	CS1181* and CEG3310* and (MTH2570 or CS2200)
		4			Lab Natural Science II	See uAchieve for list
CS2800		3			Web Development I	CS1160 or CS180 or CEG2170
CS3700		3			Intro to Databases & Modeling	CS1180 or CS1160 or CEG2170
		3			Wright State Core	Suggested Element Arts & Humanities

Total Credit Hours 31

Year Three

Course		Cr	Semester	Grade	Course Name	Prerequisites
		3			2000/3000 - level CS/CEG Technical Elective	
		3			2000/3000 - level CS/CEG Technical Elective	
CEG4110	IW / FM	3			Introduction to Software Engineering	CS3100*
STT 1600 OR STT2640		4			Statistical Concepts	MPL 21 or DEV 600 or DEV 0270
					Elementary Statistics	MPL 25 or (MTH 1270 minimum grade of a B)
EGR3350 OR ENG2140	FM	3			Technical Communications for Egr & CS	ENG1100* or ENG1110* or ENG1130* or ENG1140*
					Research, Tech Writing & Presentation for Sci & Egr	ENG1100* or ENG1110* or ENG 1130* or ENG1140* (cannot take if have credit for ENG2100)
		3			2000/3000 - level CS/CEG Technical Elective	
	FM	3			4000 - level CS/CEG Technical Elective	
		3			Wright State Core	Suggested Element Social Science
		3			General Elective	
		3			General Elective	

Total Credit Hours 31

Year Four

Course		Cr	Semester	Grade	Course Name	Prerequisites
		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
	FM	3			4000 - level CS/CEG Technical Elective	
	FM	3			4000 - level CS/CEG Technical Elective	
		3			General Elective	
		3			General Elective	

Total Credit Hours 27

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