WRIGHT STATE UNIVERSITY | COMPUTER SCIENCE AND ENGINEERING

Bachelor of Science Computer Engineering

Graduation Planning Strategy

Total Program Hours: 120

Name & UID:

*** Minimum grade of C required.**

Year One

31 Total Credit Hours (Fall 15, Spring 16)

	Course	Sem.	Grade		Prerequisites
FALL	CS1030 Survey of CS & CEG			1	None (General Elective) Freshman Status Only
	CS 1180*/1180L Computer Science I			**4**	**MTH 1280 or MPL 40**
	ENG 1100* Academic Writing & Reading			**3**	
	CS 2200*/2200R Discrete Struct & Algorithms or			**4**	**CS1200 or (MTH 1280 or MPL40)**
	MTH 2570* Discrete Mth for Comp			**4**	**MTH 1280 or MPL 40**
	WSU Core Course			3	Suggested Element Global Traditions History
SPRING	EGR 1900 Exploring Engineering Internships			1	None (Recommended General Elective)
	CS 1181*/1181L Computer Science II			**4**	**CS 1180 and (MTH 1280 or MPL 40)**
	MTH 2300 Calculus I			4	MPL 50 **or** MTH 1350
	CEG 2350/2350L Operating System Concepts and Usage			4	CS 1160 **or** CS 1180 **or** CEG 2170
	CS 1000 Tech & Society (WSU Core Global Traditions)			3	None

Make Full Major Admission Appointment with your advisor after successfully completing ENG1100, CS1180, CS1181, and MTH2570 or CS2200 with a 2.25 GPA and 24 or more semester hours. Must be a full major to take the following courses ERG 3350, CS 2210, CS 3200, or any 4000 level technical electives.

Year Two

32 Total Credit Hours (Fall 17, Spring 15)

	Course	Sem.	Grade		Prerequisites
FALL	CEG 3310/3310L* Computer Organization			4	CS 1181 **or** (CEG2170 **and**(CEG 3320 **or** EE2000))
	PHY 2400/2400L/2400R General Physics I			5	EGR 1010* **or** MTH 2300
	MTH 2310 Calculus II			4	MTH 2300
	CEG3320/3320L Digital System Design			4	(CS1180 **or** CS1160 **or** CEG2170) **and** (MTH1280 **or** MPL 40)
SPRING	CS 3100* Data Structures & Algorithms			3	CS1181 **and** CEG3310 **and** (MTH2570 **or** CS2200)
	PHY 2410/2410L/2410R General Physics II			5	PHY 2400 **and** MTH 2300 **and** (MTH 2310 can be taken concurrently)
	ENG 2140 Research, Tech Wrting & Presentation for Sci & Eng **or**			3	ENG 1100 or ENG 1110 or ENG 1130 or ENG 1140
	EGR 3350 Technical Comm for Engineers and Comp Sci			3	ENG 1100
	MTH 2350 Differential Equations w/Matrix Algebra			4	MTH 2310

Year Three

30 Total Credit Hours (Fall 15, Spring 15)

	Course	Sem.	Grade		Prerequisites
FALL	WSU Core Course			4	suggested element Science
	CEG 4330/4330L Microprocessor-Based Embedded Systems			4	CEG 3320 **or** (EE2000 **and** CEG 2170)
	EE2010 Circuit Analysis I			3	ENG 1100* **and** MTH 2310* **and** (PHY 2410/2410L can be taken concurrently)
	EE2010L Circuit Analysis I Lab			1	ENG 1100* **and** MTH 2310* **and** PHY 2410/2410L
	CEG 4350 Operating System Internals and Design			3	CS 3100 **and** CEG 3310
SPRING	EE 3210 Linear Systems I			3	EE 2010/2010L* **and** (CEG2170* **or** CS 1180* **or** CS 1161*) **and** MTH 2310
	WSU Core Course			3	suggested element Social Science
	CS/CEG 3000 level Tech Elective			3	
	CS/CEG 4000 level Tech Elective			3	
	ISE 2211 Statistics for Engineers **or**			3	EGR 1010 **or** MTH 2300
	STT 3600 Applied Statistics I			3	MTH 2310

Make a Senior Check appointment with the department for permission to register for CEG4980 Team Projects I. Apply for Graduation

Revised Summer 2019
GPS Reviewed 12/17/19

Year Four 27 Total Credit Hours (Fall 15, Spring 12)

	Course		Sem.	Grade		Prerequisites
FALL	EE 3310 Electronic Devices and Circuits				3	EE 2010/2010L **and** MTH 2300
	EE3310L Electronic Devices and Circuits Lab				1	EE 2010/2010L **and** MTH 2300
	CEG4980 Team Projects I				3	CS 3100 **and** (EGR 3350 **or** ENG 2140) **Department Permission**
		CS/CEG 4000 level Tech Elective			3	
		WSU Core Course			3	suggested element Arts or Humanities
		General Elective			2	
SPRING	CEG 4981 Team Projects II				3	CEG 4980
		CS/CEG 4000 level Tech Elective			3	
		General Elective			3	
		WSU Core Course			3	suggested element Social Science

Consult uAchieve for complete and updated course listings

Wright State Core

Element III

Global Traditions (6 credit hours)

One History: CLS1500, HST1100, 1200
and CS1000(IW)

Element IV

Arts or Humanities (3 credit hours)

One Course: ART2140, CLS1600, 2040(IW), ENG2040(IW), 2050(IW,MC), 2310(IW,MC), ML2020(MC), 2040(MC),2050(MC) MP1310, MUS1210, 2140, 2420(IW,MC), 2900(IW,MC), PHL2040(IW), 2050(IW), 2100, REL2040(IW), TH2140, UH2010(IW)

Element V

Social Science (6 credit hours)

Two Courses from Different Disciplines: ATH2200, EC2000(IW), 2040, 2050, 2500(IW,MC), 2900(IW,MC), FIN2050, PLS2000(MC after F15,IW), 2120(MC),PSY1010(IW), SOC2000(IW, MC after SU15), SW2720(IW,MC), UH2020(IW), WGS1000(MC), 2000(IW,MC)

Element VI

Natural Science (10 credit hours)

PHY 2400 & 2400L, 2410 & 2410L

Additional Core Courses (8 credit hours)

MTH 2310 Calculus II and one additional course from Element VI CHM1210/1210L, 1220/1220L, BIO1120, 1150, EES2510, 2550

A minimum of two core courses in the major must be designated as MC and 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

General Elective (8 credit hours) Including CS 1030 and EGR 1900

Notes

Technical Electives: Some technical electives require additional pre-requisites please check specific course descriptions.

General Elective courses may be any course taken for credit. **KNH courses are excluded**