



# 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
<b>FALL</b>	CS1030 Survey of CS & CEG			1	None
	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
<b>SPRING</b>	EGR 1900 Exploring Engineering Internships			1	None (Recommended)
	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. Make an admission verification appointment with the Computer Science & Engineering Department (937) 775-5131

**Year Two**

**32 Total Credit Hours (Fall 17, Spring 15)**

	Course	Sem.	Grade		Prerequisites
<b>FALL</b>	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)
<b>SPRING</b>	CS 3100* Data Structures & Algorithms			3	CS1181 and CEG2350 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 Writing & 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
<b>FALL</b>	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
<b>SPRING</b>	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

**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	<b>Global Traditions (6 credit hours)</b> One History: CLS1500, HST1100, 1200 and CS1000(IW)
	Element IV	<b>Arts or Humanities (3 credit hours)</b> 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	<b>Social Science (6 credit hours)</b> 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	<b>Natural Science (10 credit hours)</b> 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

**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

**A minimum of two courses must be designated as MC and IW.**

**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 and for a grade. **KNH courses are excluded**