BS Engineering Technology - Electrical Engineering
Computing and Information Technology Emphasis
2025-2026

WRIGHT STATE UNIVERSITY

Name: UID:

Students are encouraged to talk to their advisor about declaring a minor in this program

First Year	CR	IWMC	Sem	Gr	Title	Fa	Sp	Su
EE 2000	3.0				Digital Design with HDL--EE 2000Lc	✳	a	•
EE 2000L	1.0				Digital Design with HDL Laboratory--EE 2000c	✳	a	•
ENG 1100	3.0				English (E-1)----------------------------------ACT 23 or SAT Verbal 530 or WPL 40	✳	a	a
ME 1040	3.0				Engineering Design and Solid Modeling--	✳	a	•
UVC 1010	1.0				First Year Seminar---	✳	a	a
	3.0				WSU Core Arts/Humanities EC---	✳	a	a
CEG 2170 **OR**					Intro to C Programming for Scientists----------(MTH 1280 Minimum Grade of D or MPL 40), CEG 2170L		TBD	
CS 1160 **OR**	4.0				Intro to Computer Programming----------------(MPL 40 or MTH 1280 Minimum Grade of P), CS1160Lc	a	✳	•
CS 1180					Computer Science I--------------------------------(MPL 40 or MTH 1280 Minimum Grade of D, CS1180Lc	a	✳	a
	3.0				WSU Core Arts/Humanities EC--	a	✳	a
	3.0				WSU Core Social and Behavioral Sciences ED------------------------------------	a	✳	a
MTH 2300	4.0				Calculus I (E-2 Additional)-------------------------------MTH 1350 or MPL 50 or ALEKS 76	a	✳	a
					Credit Hours Per Semester in the Model Program	14	14	0

Second Year	CR	IWMC	Sem	GR	Title	Fa	Sp	Su
EE 2010/L **OR**	3.0				Analog Circuit Theory----------------EGR 1010(min grade of C), or MTH 2300 (min grade of C), EE2010Lc	✳	a	•
EE 2011/L	1.0				Analog Circuit Techniques--EE 2011Lc	✳	a	•
ISE 2211(D)	3.0				Statistics for Engineers---EGR 1010 or MTH 2300	✳	a	•
PHY 1110					Principles Physics I------------------------------MTH 1280 or WSU MPL 40,PHY 110 (L),PHY 1110(R)c	✳		
PHY 1110L **OR**	4.0				Principles Physics I(L)---PHY 1110: PHY 1110(R)c		a	a
PHY 2400	1.0				General Physics I (E-6)-------------------------------(MTH 2300 or EGR 1010 C or better), PHY 2400Lc	✳	a	a
PHY 2400L					General Physics Lab (E-6)---PHY 2400c			
	3.0				General Elective--	✳	a	a
CEG 2350	4.0				Operating Systems Concepts and Usage-------------------(CS 1150 or CS 1180 or CEG 2170), CEG 2350Lc	a	✳	•
	3.0				CIT Emphasis Elective (must be CS or CEG course)------------------------------------	a	✳	a
	3.0				Additional Core: Must be MTH 2310 for students who choose PHY 2400/L as physics sequence--------	a	✳	a
PHY 1120					Principles of Physics II--PHY 1110, PHY 1120Lc	a	✳	a
PHY 1120L **OR**	4.0				Principles of Physics II lab--PHY 1120c	a	✳	a
PHY 2410	1.0				General Physics II (E-6)--------------------------------PHY 2400, MTH 2300, {MTH 2310}, PHY 2410Lc	a	✳	a
PHY 2410L					General Physics II Lab (E-6)--PHY 2410c	a	✳	a
					Credit Hours Per Semester in the Model Program	15	15	0

Third Year	CR	IWMC	Sem	Gr	Title	Fa	Sp	Su
EE track elec	3-4				See list of options on page 2--	✳	a	•
CEG 2400	3.0				Introduction to PC Networking------------------------------ CS 1150 or CS 1160 or CS 1180 or CEG 2170	✳	a	•
EGR 3350 **OR**	3.0				Technical Communications for Engineers and Computer Scientists-------------------------ENG 1100	✳	a	•
ENG 2140(D)					Research, Technical Writing and Presentation for Scientists and Engineers----------------------ENG 1100			
ISE 4850(D)	3.0				Six Sigma for Engineers--ISE 2211	✳	•	•
					Additional WSU Core---	✳	a	a
ISE 4830(D)	3.0				Engineering Project Management & Applications-----------------------------------(ISE 2211 or STT 3600)	•	✳	•
EE 3310	3.0				Electronic Devices and Circuits--------------EE 2010 and EE 2010L C or better and MTH 2300, EE 3310Lc	a	✳	•
EE 3310L	1.0				Electronic Devices and Circuits Lab----------EE 2010 and EE 2010L C or better and MTH 2300, EE 3310c	a	✳	•
EE track elec	3-4				See list of options on page 2--	a	✳	•
	3.0				General Elective--	a	✳	a
					Credit Hours Per Semester in the Model Program	16	14	0

Fourth Year	CR	IWMC	Sem	GR	Title	Fa	Sp	Su
EE 4910	3.0	IW			Electrical Engineering Senior Design Project I---------------------------Requires Departmental permission	✳	•	•
ISE 4810(D)	3.0				Production and Service Systems---ISE 2211, ISE 4711, ISE 4712	✳	•	•
ISE 4400(D)	3.0				Engineering Economy--EGR 1010 or MTH 2300	✳	•	•
CS 3700	3.0				Intro to Databases & Modeling--------(CS 1180 Min Gr D or CS 1160 Min Gr D or CEG 2170 Min Gr D)	✳	a	•
	3.0				General elective--	✳	a	a
EE 4920	3.0	IW			Electrical Engineering Senior Design Project II--EE 4910	a	✳	a
CEG 3400	3.0				Introduction to Cyber Security--CEG 2350 Min Gr C	a	✳	•
	3.0				General Elective--	a	✳	a
	3.0				General Elective--	a	✳	a
	3.0				General Elective--	a	✳	a
	2.0				Additional WSU Core---	a	✳	a
					Credit Hours Per Semester in the Model Program	15	17	0

Total Semester Credit Hours = 120.0

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1. Courses marked with (D) are offered through distance education
2. The minor courses are listed with information we have at the time the guides are printed, but we cannot predict or control course schedule changes for courses in other Colleges.
3. Additional Core Requirements
   Within the 36 credit hours of the Wright State Core students much successfully complete the following:

   - One Global Inquiry (GI) course
   - Two inclusive Excellence (IE) courses
   - One to two Integrated Writing (IW) courses. To meet degree requirements all students much complete a minimum of three IW courses by choosing either (a) one in the Core and two in the major or (b) two in the Core and one in the major.
     Students who do not make choices within the 36 required hours of the Core to fulfill the GI, IE< and IW requirements will take additional Core hours beyond the minimum of 36.
4. CIT minor https://catalog.wright.edu/preview_program.php?catoid=24&poid=20526&returnto=1181
5. Guide may be subject to change

EE Track Elective options
Select two of the following EE track electives:

EE 4120	3.0	Industrial Controls & Automation------------------------------------(CEG 2170 or ME 1020 or CS 1180 or CS 1160), EE 4120Lc	✷	a	•
EE 4120L	1.0	Industrial Controls & Automation lab----------------------------------(CEG 2170 or ME 1020 or CS 1180 or CS 1160), EE 4120L	✷	a	•
EE 4550	3.0	IC Hardware Security & Trust—--(EE 2000/L or CEG 3320/L), EE 4550Lc	•	✷	•
EE 4550L	1.0	IC Hardware Security & Trust Lab---(EE 2000/L or CEG 3320/L), EE 4550c	•	✷	•
EE 4620	3.0	Digital Integrated Circuit Design & PLDs and FPGAs---(EE 2000/L or CEG 3320)	✷	a	•
EE 4620L	1.0	Digital Integrated Circuit Design & PLDs and FPGAs Lab-- (EE 2000/L or CEG 3320)	✷	a	•
EE 4100 **OR**	3.0	Nano-Fabrication of Integrated Solid-State Devices--------------------------PHY 2410/2410L, (EE 3310/3310L or PHY 2420)	TBD		
EE 4800 **OR**	3.0	Fundamentals of Modern VLSI Devices---EE 2010	✷	•	•
PHY 4200	3.0	Microfabrication Sciences--	•	✷	•