BS Engineering Technology - Industrial and Systems Engineering
Computing and Information Technology Emphasis
2025-2026

Name: UID:

First Year	CR	IWMC	Sem	Gr	Title	Fa	Sp	Su
ENG 1100	3.0				English (EA)--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
	3.0				WSU core Social and Behavioral Sciences (ED)---	∗	a	a
CEG 2170 **OR**					Intro to C Programming for Scientists---------------------------------(MTH 1280 or MPL 40), CEG 2170Lc		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), CS1180Lc	a	∗	a
MTH 2300	4.0				Calculus I (EB)---MTH 1350 or MPL 50 or ALEKS 76	a	∗	a
PHY 1110	4.0				Principles Physics I (EE)----------------------------MTH 1280 or WSU MPL 40),PHY 1110 (L),PHY 1110(R)c	a	∗	a
PHY 1110L	1.0				Principles Physics I Lab (EE)---PHY 1110: PHY 1110(R)c	a	∗	a
	3.0				WSU core – Arts/Humanities (EC)---	a	∗	a
Credit Hours Per Semester in the Model Program						**13**	**16**	**0**

Second Year	CR	IWMC	Sem	GR	Title	Fa	Sp	Su
EE 2010					Analog Circuit Theory----------------EGR 1010(min grade of C), or MTH 2300 (min grade of C), EE2010Lc	∗	a	•
EE 2010L **OR**	3.0				Analog Circuit Theory Lab----- ------EGR 1010(min grade of C), or MTH 2300 (min grade of C), EE2010c	∗	a	•
EE 2011	1.0				Analog Circuit Techniques--------------------------------MTH 2240 or EGR 1010(min grade of C),EE 2011Lc	∗	a	•
EE 2011L					Analog Circuit Techniques Lab-- ---------------------EE 2011c	∗	a	•
ISE 2211(D)	3.0				Statistics for Engineers--EGR 1010 or MTH 2300	∗	a	•
PHY 1120	4.0				Principles of Physics II (EE)---PHY 1110, PHY 1120Lc	∗	a	a
PHY 1120L	1.0				Principles of Physics II lab (EE)--PHY 1120c	∗	a	a
	3.0				General Elective--	∗	a	a
CEG 2350/L	4.0				Operating Systems Concepts and Usage-------------------(CS 1160 or CS 1180 or CEG 2170), CEG 2350Lc	a	∗	•
	3.0				CIT emphasis course---See list on back of guide	a	∗	•
	3.0				Social and Behavioral Sciences (ED)---	a	∗	a
	3.0				Additional WSU Core---	a	∗	a
	3.0				General Elective---	a	∗	a
Credit Hours Per Semester in the Model Program						**15**	**15**	**0**

Third Year	CR	IWMC	Sem	Gr	Title	Fa	Sp	Su
ISE 4850(D)	3.0				Six Sigma for Engineers--ISE 2211	∗	•	•
ISE 4150(D)	3.0				Advanced Statistics for Engineers---ISE 2211	∗	•	•
ISE 4711(D)	3.0				Optimization Methods--ISE 2211 and (MTH 2570 or MTH 2300)	∗	•	•
CEG 2400	3.0				Introduction to PC Networking--------------------------------(CS 1150 or CS 1160 or CS 1180 or CEG 2170)	∗	a	•
EGR 3350 **OR**					Technical Communications for Engineers and Computer Scientists-------------------------------ENG 1100	∗	a	•
ENG 2140(D)	3.0				Research, Technical Writing and Presentation for Scientists and Engineers----------------------ENG 1100			
	2.0				Additional WSU Core	•	∗	•
ISE 4830(D)	3.0				Engineering Project Management & Applications--------------(ISE 2211 Min Gr D or STT 3600 Min Gr D)	•	∗	•
ISE 4712(D)	4.0				Simulation and Stochastic Models---ISE 4150, ISE 4712Lc	•	∗	•
ISE 4510(D) **OR**	3.0				Computer Applications in ISE---ISE 4150, CS 1160	•	∗	•
ISE 4820(D)					Supply Chain Analysis & Design---ISE 4711			
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 4120c	a	∗	•
Credit Hours Per Semester in the Model Program						**15**	**16**	**0**

Fourth Year	CR	IWMC	Sem	GR	Title	Fa	Sp	Su
ISE 4810(D)	3.0				Production and Service Systems---ISE 2211, ISE 4711, ISE 4712	∗	•	•
ISE 4910(D)	3.0	IW			Senior Design I--ISE 4320, ISE 4712, EGR 3350	∗	•	•
ISE 4400(D)	3.0				Engineering Economy--EGR 1010 or MTH 2300	∗	•	•
CS 3700	3.0				Intro to Databases &Modeling---(CS 1180 or CS 1160 or CEG 2170)	∗	a	•
	3.0				General Elective---	∗	a	a
CEG 3400	3.0				Introduction to Cyber Security--CEG 2350 Min Gr C	a	∗	•
ISE 4920(D)	3.0	IW			Senior Design II---ISE 4910	•	∗	•
	3.0				General Elective--	a	∗	a
	3.0				General Elective--	a	∗	a
	3.0				General Elective--	a	∗	a
Credit Hours Per Semester in the Model Program						**15**	**15**	**0**

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Total Semester Credit Hours = 120.0

1. Course marked with (D) are offered through distance education
2. The emphasis 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 or departments.
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