



BS Engineering Technology - Electrical Engineering Business Analytics Emphasis 2025-2026

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	IW			Digital Design with HDL-----EE 2000Lc	*	a	*
EE 2000L	1.0				Digital Design with HDL Laboratory-----EE 2000c	*	a	*
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 – History (EC)-----	*	a	a
CEG 2170 OR	4.0				Intro to C Programming for Scientists----- (MTH 1280 or MPL 40), CEG 2170Lc	TBD		
CS 1160 OR					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
					WSU Core Arts/ Humanities – History (EC)-----	a	*	a
	3.0				WSU Core Social and Behavioral Sciences (ED)-----	a	*	a
MTH 2300	4.0				Calculus I (EB)-----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	4.0				Analog Circuit Theory-----EGR 1010 (min grade of C), or MTH 2300 (min grade of C), EE2010Lc	*	a	*
EE 2011/L					Analog Circuit Techniques-----EE 2011Lc	*	a	*
ISE 2211(D)	3.0				Statistics for Engineers-----EGR 1010 or MTH 2300	*	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 OR					Principles Physics I Lab (EE)-----PHY 1110: PHY 1110(R)c			
PHY 2400	1.0				General Physics I (EE)----- (MTH 2300 or EGR 1010 C or better), PHY 2400Lc	*	a	a
PHY 2400L	3.0				General Physics Lab (EE)-----PHY 2400c	*	a	a
	4.0				General Elective-----	*	a	a
EE track elec	4.0				See list of options on page 2-----	a	*	*
MIS 3000*	3.0				Fundamentals of Information Systems -----Jr Status and permission from RSCOB required to register	a	*	a
PHY 1120	4.0				Principles of Physics II (EE)-----PHY 1110, PHY 1120Lc	a	*	a
PHY 1120L OR					Principles of Physics II lab (EE)-----PHY 1120c	a	*	a
PHY 2410	1.0				General Physics II (EE)-----PHY 2400, MTH 2300, {MTH 2310}, PHY 2410Lc	a	*	a
PHY 2410L	3.0				General Physics II Lab (EE)-----PHY 2410c	a	*	a
					Additional Core: Must be MTH 2310 for students who choose PHY 2400/2410 as physics sequence---	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	*
EGR 3350 OR	3.0				Tech Comm for Engineers & Computer Scientists -----ENG 1100	*	a	*
ENG 2140(D)					Rsrch, Tech Writing & Presentation for Scientists & Egr-----ENG 1100 Min Gr C or ENG 1130 Min Gr C or ENG 1140 Min Gr C			
ISE 4400	3.0				Engineering Economy-----EGR 1010 or MTH 2300	*	*	*
ISE 4850	3.0				Six Sigma for Engineers-----ISE 2211	*	*	*
	3-4				General Elective-----	*	a	a
ISE 4830	3.0				Engineering Project Management & Applications----- (ISE 2211 or STT 3600)	a	*	a
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	*	*
MIS 3810*	3.0				Introduction to Business Data-----MIS 3000, BUS Tier II Complete 7	a	*	*
	3.0				Business Analytics emphasis elective-----	a	*	*
	3.0				WSU Core Social and Behavioral Sciences (ED)-----	a	*	a
Credit Hours Per Semester in the Model Program						16	16	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	3.0				Production and Service Systems-----ISE 2211, ISE 4711, ISE 4712	*	*	*
MIS 3820*	3.0				Data Mining for Business-----	*	a	*
	3.0				Business Analytics emphasis elective-----	*	*	*
MIS 3840*	3.0				Data Visualization for Business-----MIS 3000, must be Jr or Sr classification	*	a	*
EE 4920	3.0	IW			Electrical Engineering Senior Design Project II-----EE 4910	a	*	*
	3.0				General Elective-----	a	*	a
	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

Total Semester Credit Hours = 120.0

1. * Student will need to request permission to register for MIS courses in the BA minor
2. Courses marked with (D) are offered through distance education
3. 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.
4. Additional Core Requirements:
Within the 36 credit hours of the Wright State Core students must 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 must 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.
5. Business Analytics Minor https://catalog.wright.edu/preview_program.php?catoid=25&poid=23035&returnto=1312
6. Guide may be subject to change

EE Track Elective options

Select two of the following EE track electives (7-8 credit hours: two 4-credit courses or one 4-credit course and one 3-credit course):

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	*
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/L), EE 4620Lc	*	a	*
EE 4620L	1.0	Digital Integrated Circuit Design & PLDs and FPGAs Lab-----	(EE 2000/L or CEG 3320/L), EE 4620c	*	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-----		.	*	*