

Curriculum Guide for AS to BS Electrical & Computer Engineering Tech at WCU

Freshman/First Year

1st Semester		Fall			2nd Semester		Spring		
CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
ENG 111	ENGL 101	C1	3		ENG 112	ENGL 202	C1	3	
MAT 171	MATH 130	C2	4	Pre-Requisite	COM 231 (Other Hours)	COMM 201	C3	3	
Social/Behavioral Sciences (Other Hours)	History	P3	3		MAT 172	MATH 146		3	Required
Humanities/Fine Arts	Fine & Performing Arts	P5	3		Social/Behavioral Sciences	Social Sciences	P1	3	
Social Science (Global Perspective)	World Cultures	P6	3		PHY 151	PHYS 130	C5	4	Required
ACA 122	USI 130		1						
Total Credit Hours					Total Credit Hours				
17					16				

*This assumes placement into college level courses. This is only meant to be a guide. Please see your academic advisor to develop your individual plan.

**Electrical and Computer Engineering is unlikely to be completed in a 4 year time span.

Sophomore/Second Year

3rd Semester		Fall			4th Semester		Spring		
CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
HEA 110/PED 110/Other Elective	Wellness	C4	3		Social/Behavioral Sciences	Social Sciences	P1	3	
Humanities/Fine Arts	Humanities	P4	3		EGR 150 (Other Hours)	ENGR 199		2	Required
PHY 152	PHYS 131	C5	4	Required	Elective	Elective		3	
MAT 152	MATH 170		4	Required	MAT 271	MATH 153		4	Required
Total Credit Hours					Total Credit Hours				
14					13				

*If cannot take EGR 150, plan for more time at WCU.

Suggested Course Sequence to transfer from NCCCS
Junior/Third Year (at WCU)

5th Semester Fall

6th Semester Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
MATH 255	Calculus II	4		ECET 242	Electronic Circuits	4	ELN 131 or ELN 137
EE 200	Computer Utilization	3	CSC 134, 135, or 136	ECET 211	Drafting/Fabrications	3	ELN 150 and 152
ECET 231	Circuit Analysis I	4	ELC 131 or ELC 138	ECET 290	Computer Engineering Fundamentals	3	CET 251
ENGR 200	Engineering Practices and Principles II	3					
Total Credit Hours			14	Total Credit Hours			10

Senior/Fourth Year

7th Semester Fall

8th Semester Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
ECET 321	Circuit Analysis II	4		ECET 332	Microcontrollers	4	
EE 221	Digital Integrated Circuits	3		ECET 341	Advanced Circuit Analysis	3	
ECET 221	Digital Integrated Circuits Lab	1		ECET 312	Electronic Communications	4	
ENGR 350	Engineering Practices & Principles III	3					
Total Credit Hours			11	Total Credit Hours			11

Senior/Fifth Year

9th Semester Fall

10th Semester Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
ECET 431	Microprocessor Interfacing	4		ENGR 450	Engineering Capstone II	3	
ECET 446	Modern Power Systems	4		ECET 461	Digital Signal Processing	3	
ECET 452	Control Systems	4		ECET 464	Instrumentation	4	
ENGR 400	Engineering Capstone I	3					
Total Credit Hours			15	Total Credit Hours			10

UGETC=purple shading

Other required hours=blue shading

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Suggested Course Sequence to transfer from NCCCS

Total Credit Hours

131

*32 hours of 300-400 level courses must be taken at WCU. ****FULL TIME STATUS = 12 HOURS; Student MAY need to add Minor to meet this requirement for On Campus Living and/or Financial Aid.**