

Curriculum Guide for AS to BS Engineering Technology (Applied Systems Technology) 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 for MATH 146 if needed	COM 231 (Other Hours)	COMM 201	C3	3		
Social/Behavioral Sciences (Other Hours)	History	P3	3		MAT 172	MATH 146		4	Required	
Humanities/Fine Arts	Fine & Performing Arts	P5	3		Social/Behavioral Sciences	Social Sciences	P1	3		
CHM 151	CHEM 139	C5	4	Required	CHM 152	CHEM 140		4	Not required for WCU	
ACA 122	USI 130		1							
Total Credit Hours				18	Total Credit Hours				17	

* This is only meant to be a guide. See your academic advisor to develop your individual plan. Liberal studies (General Education) requirements will be waived for students transferring to WCU with the AS degree. A grade of C or above is required to obtain transfer credit at WCU.

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	
EGR 150 (Other Hours)	ENGR 199		2	Required	PHY 151	PHYS 130	C5	4	Required	
Social/Behavioral Sciences	Social Sciences	P1	3		DFT 170 (Other Hours)	ENGR 132		3	Required (Instead of Wellness)	
Social Science (Global Perspective)	World Cultures	P6	3		Humanities/Fine Arts	Humanities	P4	3		
MAT 271 (Other Hours)	MATH 153		4	Required	MAT 252	MATH 270		4	Required	
Total Credit Hours				12	Total Credit Hours				14	

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
ET 141	Processes	3		ET 232	Engineering Statics	3	
ENGR 200	Principles II	3		ENGR 350	Principles III	3	
ENGR 231	3-D Solid Modeling	3		ET 351	Engineering Analysis	3	
ECET 301	Electrical Systems	3		ET 310	Modeling and Rapid	3	
ET 331	Quality Systems	3	Pre-req: MATH 270	ENGR 352	Heat Transfer	3	
ET 436	Analysis	3		Technical Elective	211, MATH 255, or MATH	3	
Total Credit Hours				Total Credit Hours			
18				18			

Senior/Fourth Year

7th Semester

Fall

8th Semester

Spring

WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
ET 349	Prototyping	3		ENGR 450	Engineering Capstone II	3	
ET 332	Strengths of Materials	3		ET 425	Engineering	3	
ET 333	Strengths of Materials Lab	1		ET 334	Lean/Six Sigma	3	
ENGR 400	Engineering Capstone I	3		ET 472	Systems	3	
ET 420	Advanced Engineering	3		ENGL 402	Technical Writing	3	
ET 441	Systems	3		Technical Elective	211, MATH 255, or MATH	3	
Total Credit Hours				Total Credit Hours			
16				18			

Total Credit Hours 131

Reminder: 30 hours of 300-400 level courses must be taken at WCU.

[More information on B.S. Engineering Technology](#)