

BSET Electrical Engineering Technology Checksheet

Name: _____
 Student ID: _____

A.S A.A.S

Revised: 05/01/23
 Catalog Date: 2023-2024

Lower-Level Courses

Freshman Fall	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		MATH 1103	Precalculus Mathematics for Science and Engineering*	3				
		STAT 1220	Elements of Statistics I (BUSN)*	3			MATH 1100	
		WRDS 1103	Writing and Inquiry in Academic Contexts I and II*	3				
		XXXX 1501	Global Theme (Social Science)	3				
		XXXX 1511	Local Theme (Social Science)	3				
	Total:				15			

Freshman Spring	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETGR 1201	Introduction to ET and CM*	2			MATH 1100	
		MATH 1121	Calculus for Engineering Technology*	3			MATH 1103	or ETGR 2171* or MATH 1241*
		PHYS 1101	Introductory Physics I*	3			MATH 1100 or MATH 1103	
		PHYS 1101L	Introductory Physics I Lab*	1			PHYS 1101	
		XXXX 1502	Global Theme (Arts / Humanities)	3				
		XXXX 1512	Local Theme (Arts / Humanities)	3				
Total:				15				

Sophomore Fall	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETGR 2272	Engineering Analysis II*	3			ETGR 2171 or MATH 1121 or MATH 1241	or MATH 1242*
		ETEL 2101	Circuit Fundamentals*	3			MATH 1103	
		ETEL 2171	Algorithms and Programming*	3				
		ETEL 2181	Circuits in Action	1			ETEL 2101	
		PHYS 1102	Introductory Physics II	3			PHYS 1101	
		PHYS 1102L	Introductory Physics II Lab	1			PHYS 1102	
Total:				14				

Sophomore Spring	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETGR 3171	Engineering Analysis III	3			ETGR 2272 or MATH 1242	
		ETEL 2201	Circuit Analysis	3			ETEL 2101 and MATH 1121	
		ETEL 2271	Digital Fundamentals*	3			ETEL 2171 and MATH 1103	
		ETEL 2281	Doing and Making	3			ETEL 2181 and ETEL 2271	
		CTCM 2530	Critical Thinking and Communication	3				
Total:				15				

Upper-Level Courses

Junior Fall	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETEL 3101	Analog Signals	3			ETEL 2201 and ETGR 2272	
		ETEL 3131	Analog Devices	3			ETEL 2201	
		ETEL 3161	Foundations of Mechanics	3			PHYS 1101	
		ETEL 3171	Digital Devices	3			ETEL 2271	
		ETEL 3181	Exploring Devices	1			ETEL 3171 and ETEL 3131	
		ETEL 3191	From Concept to Product	3				
Total:				16				

Junior Spring	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETEL 3231	Power, Machines, and Energy	3			ETEL 2201	
		ETEL 3261	Control Fundamentals	3			ETEL 3101	
		ETEL 3271	Digital Signals	3			ETEL 3171	
		ETEL 3281	More Doing and Making	3			ETEL 2281 and ETEL 3191	
		ETEL 3291	Practical System Design	3			ETEL 3101	
Total:				15				

Senior Fall	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETGR 3295	Multidisciplinary Professional Development	1			Junior or Senior standing	
		ETGR 4100	Capstone Design Project I	2			Senior standing and completion of all lower-level courses	
		ETEL 4131	Power Conversion and Control	3			ETEL 3131	
		ETEL 4161	Elements of Automation	3			Senior standing	
		Major Elective		3				
	Major Elective		3					
Total:				15				

Senior Spring	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments	
		ETGR 3222	Engineering Economics	3				
		ETGR 4200	Capstone Design Project II	2			ETGR 4100	
		ETEL 4261	Robotics and Automated Systems	3			ETEL 3261 and ETEL 4161	
		ETEL 4600	Technology Seminar	1			Senior standing	
		Major Elective		3				
	Major Elective		3					
Total:				15				

* = grade of C or better is required for degree progression

Course in *italics* can be taken as a pre or co-requisite