

BSET Electrical Engineering Technology 2+2 Checksheet

Name: _____
Student ID: _____

A.S A.A.S

--	--

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

Lower-Level Courses

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Freshman Fall		MATH 1103	Precalculus Mathematics for Science and Engineering*	3			
	Block Credit	STAT 1220	Elements of Statistics I (BUSN)*	3		MATH 1100	
	EXEMPT	WRDS 1103	Writing and Inquiry in Academic Contexts I and II*	3			
	EXEMPT	XXXX 1502	Global Theme (Arts / Humanities)	3			
	EXEMPT	XXXX 1511	Local Theme (Social Science)	3			
				Total:			15

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Freshman Spring	Block Credit	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	
	EXEMPT	XXXX 1512	Local Theme (Arts / Humanities)	3			
				Total:			12

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Sophomore Fall		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			
	Block Credit	ETEL 2181	Circuits in Action	1		ETEL 2101	
	EXEMPT	CTCM 2530	Critical Thinking and Communication	3			
	EXEMPT	XXXX 1501	Global Theme (Social Science)	3			
				Total:			16

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Sophomore Spring		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	
		PHYS 1102	Introductory Physics II	3		PHYS 1101	
		PHYS 1102L	Introductory Physics II Lab	1		PHYS 1102	
				Total:			16

Upper-Level Courses

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Junior Fall		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

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Junior Spring		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

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Senior Fall		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

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Senior Spring		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

2+2 Transfer Block (A.A.S. in computer, electrical, electronics)		
	NCCC Course	ETEL Equivalent Course
Freshman	MAT 172, 175	MATH 1103 Precalc Math for Sci. & Eng.
	EXEMPT	WRDS 1103 Writing & Inquiry
	EXEMPT	XXXX 1502 Global Theme (Arts / Humanities)
	EXEMPT	XXXX 1511 Local Theme (Social Science)
	Block credit	STAT 1220 Elements of Statistics
	Block credit	ETGR 1201 Introduction to ET
	PHY 151, 251	PHYS 1101 Introductory Physics I
		PHYS 1101L Introductory Physics I Lab
	MAT 223, 263, 271	MATH 1121 ET Calculus
	EXEMPT	XXXX 1512 Local Theme (Arts / Humanities)
Sophomore	MAT 272	ETGR 2272 Engineering Analysis II
	CSC 133, 134, 153, 233, 234	ETEL 2171 Algorithms and Programming
	EGR 215, ELC 112, 131	ETEL 2101 Circuit Fundamentals
	Block credit	ETEL 2181 Circuits in Action
	EXEMPT	XXXX 1501 Global Theme (Social Science)
	EXEMPT	CTCM 2530 Critical Thinking and Communication
	MAT 285	ETGR 3171 Engineering Analysis III
	ELC 133	ETEL 2201 Circuit Analysis
	EGR 212, ELN 133, 141	ETEL 2271 Digital Fundamentals
	ELN 232	ETEL 2281 Doing and Making
	PHY 152, 252	PHYS 1102 Introductory Physics II
		PHYS 1102L Introductory Physics II Lab