

BSET in Electrical Engineering Technology Plan of Study

Lower-Level Courses				
Fall Classes			Spring Classes	
Freshman	Course Title	SCH	Course Title	SCH
	MATH 1103 Precalc Math for Sci. & Eng.	3	ETGR 1201 Introduction to ET	2
	STAT 1220 Elements of Statistics	3	MATH 1121 ET Calculus	3
	WRDS 1103 Writing & Inquiry	3	PHYS 1101 Introductory Physics I	3
	XXXX 1501 Social Science (Global Theme)	3	PHYS 1101L Introductory Physics I Lab	1
	XXXX 1511 Social Science (Local Theme)	3	XXXX 1502 Arts / Humanities (Global Theme)	3
			XXXX 1512 Arts / Humanities (Local Theme)	3
Semester Total:		15	Semester Total: 15	

Sophomore	Course Title	SCH	Course Title	SCH
	ETGR 2272 Engineering Analysis II	3	ETGR 3171 Engineering Analysis III	3
	EDEL 2101 Circuit Fundamentals	3	EDEL 2201 Circuit Analysis	3
	EDEL 2171 Algorithms and Programming	3	EDEL 2271 Digital Fundamentals	3
	EDEL 2181 Circuits in Action	1	EDEL 2281 Doing and Making	3
	PHYS 1102 Introductory Physics II	3	CTCM 2530 Critical Thinking & Communication	3
	PHYS 1102L Introductory Physics II Lab	1		
Semester Total:		14	Semester Total: 15	

Upper-Level Courses				
Fall Classes			Spring Classes	
Junior	Course Title	SCH	Course Title	SCH
	EDEL 3101 Analog Signals	3	EDEL 3231 Power, Machines, and Energy	3
	EDEL 3131 Analog Devices	3	EDEL 3261 Control Fundamentals	3
	EDEL 3161 Foundations of Mechanics	3	EDEL 3271 Digital Signals	3
	EDEL 3171 Digital Devices	3	EDEL 3281 More Doing and Making	3
	EDEL 3181 Exploring Devices	1	EDEL 3291 Practical System Design	3
	EDEL 3191 From Concept to Product	3		
Semester Total:		16	Semester Total: 15	

Senior	Course Title	SCH	Course Title	SCH
	ETGR 3295 Multidisc. Prof Development	1	ETGR 3222 Engineering Economics	3
	ETGR 4100 Capstone Design Project I	2	ETGR 4200 Capstone Design Project II	2
	EDEL 4131 Power Conversion and Control	3	EDEL 4261 Robotics and Automated Systems	3
	EDEL 4161 Elements of Automation	3	EDEL 4600 Technology Seminar	1
	XXXX XXXX Major Elective	3	XXXX XXXX Major Elective	3
	XXXX XXXX Major Elective	3	XXXX XXXX Major Elective	3
Semester Total:		15	Semester Total: 15	

Total Student Credit Hours:	120
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BSET Electrical Engineering Technology Checksheet

Name: _____
 Student ID: _____

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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			
		STAT 1220	Elements of Statistics I (BUSN)*	3		MATH 1100	
		WRDS 1103	Writing and Inquiry in Academic Contexts I and II*	3			
		XXXX 1502	Global Theme (Arts / Humanities)	3			Replaces LBST110X
		XXXX 1511	Local Theme (Social Science)	3			Replaces Social Science
		Total:			15		
Freshman Spring		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 MATH1103	
		PHYS 1101L	Introductory Physics I Lab*	1		PHYS 1101	
		XXXX 1512	Local Theme (Arts / Humanities)	3			Replaces LBST2XXX Western Culture
		Total:			12		
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			
		ETEL 2181	Circuits in Action	1		ETEL 2101	
		CTCM 2530	Critical Thinking and Communication	3			Replaces LBST 2301
		XXXX 1501	Global Theme (Social Science)	3			Replaces LBST2XXX Global Communications
		Total:			16		
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		
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			
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		
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