

BSET Electrical Engineering Technology Checksheet

Rev: 03/24/21

Catalog Date: 2022-2023

Last Name: _____ 2+2 DE
 First Name: _____
 Student ID: _____

SEM

& YR Course # Course Name Hr Grade Pre/Co-Requisites Comments

Freshman - Fall

ELET 1102	C Programming ^(c)	3	_____		
ETGR 1100L	ET Computer Applications Lab ^(c)	1	_____		
ETGR 1101	Introduction to ET & CM ^(c)	1	_____	MATH 1100	
MATH 1103	Precalculus Mathematics for Science & ENGR		_____		
	ANTH 1101; GEOG 1105; POLS 1110; ECON		_____		
	Social Science: 1101 or 2101; SOCY 1101	3	_____		
WRDS 1103	Writing & Inquiry in Academic Contexts I & II ^(c)	3	_____		
		Total	14		

Freshman - Spring

ELET 1211	DC Circuits ^(c)	3	_____	MATH 1103	
ELET 1231	Digital Circuits ^(c)	3	_____	ELET 1231L	
ELET 1231L	Digital Circuits Lab ^(c)	1	_____	ELET 1231	
PHYS 1101	Introductory Physics I ^(c)	3	_____	MATH1103	
PHYS 1101L	Introductory Physics I Laboratory ^(c)	1	_____	PHYS 1101	
STAT 1220	Elements of Statistics I ^(c)	3	_____	MATH1100	
		Total	14		

Sophomore - Fall

ELET 2112	AC Circuits	3	_____	ELET 1211*, ELET 2113L	
ELET 2113L	DC/AC Circuits Lab	1	_____	ELET 2112	
ELET 2231	Microprocessor Fundamentals	3	_____	ELET 1231*, <i>ELET 1102</i>	
MATH 1121	ET Calculus, ETGR 2171 or MATH 1241 ^(c)	3	_____	MATH 1103*	
PHYS 1102	Introductory Physics II	3	_____	PHYS 1101*	
PHYS 1102L	Introductory Physics II Laboratory	1	_____	PHYS 1101L or PHYS 2101L, <i>PHYS 1102</i>	
		Total	14		

Sophomore - Spring

ELET 2221	Electronics I ^(c)	3	_____	ELET 2112, ELET 2221L	
ELET 2221L	Electronics I Lab	1	_____	ELET 2221	
ELET 2241	Instrumentation and Controls	3	_____	ELET 2112 or ETGR2106, ELET 2241L	
ELET 2241L	Instrumentation Lab (W)	1	_____	ELET 2241	
ELET 2290	Sophomore Practicum	3	_____	ELET 1231, <i>ELET 2221</i> , ETGR 1101	
ETGR 2272	Engineering Analysis II or MATH 1242 ^(c)	3	_____	MATH 1121* or MATH 1241*	
LBST 110X	Refer to DegreeWorks for LBST course ^(d)	3	_____		
		Total	17		

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

Course in **bold** must be taken as a co requisite

* = grade of C or better required in prerequisite course

Footnotes:

(b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major elective courses must be approved in writing by the ETCM Department.

(c) These courses must be completed with a grade of C or better.

BSET Electrical Engineering Technology Checksheet

Rev: 03/24/21

Catalog Date: 2021-2022

Last Name: _____ 0

Student ID: _____ 0

SEM	Course #	Course Name	Hr	Grade	Pre/Co-Requisites	Comments
Junior - Fall						
	ELET 3113	Network Analysis	3		ELET 2112, <i>ETGR 2272</i> or <i>MATH 1242</i>	
	ELET 3132	Digital Systems	3		ELET1231	
	ELET 3132L	Digital Systems Lab (W)	1		ELET 1231, <i>ELET 3132</i>	
	ELET 3141	Power Systems & Machines	3		ELET 2112	
	ELET 3190	Junior Practicum	3		ELET 2231, ELET 2290 or AAS transfer	
	ETGR4272	Engineering Analysis III or IV	3		(and STAT1220* for ETGR4272)	

Total 16

Junior - Spring						
	ELET 3222	Electronics II	3		ELET 2221	
	ELET 3222L	Electronics II Lab (W)	1		ELET 2221, <i>ELET 3222</i>	
	ELET 3232	Advanced Microcontroller Systems	3		ELET 1102, ELET 2231	
	ELET 3242	Fundamentals of Control Systems	3		ELET 3113	
	ETGR 3222	Engineering Economics	3			
	LBST 2301	Refer to DegreeWorks for LBST course ^(d)	3			

Total 16

Senior - Fall						
	ELET 4123	Active Filters	3		ELET 3113, ELET 3222	
	ELET 4142	Power Electronics	3		ELET 3222	
	ETGR 4100	Capstone Design Project I (O, W)	2		Senior standing and permission of department, ELET3190 (for ELET)	
	Major Elective ^(b)		3			
	LBST 2XXX	Refer to DegreeWorks for LBST course ^(d)	3			

Total 14

Concentration

Senior - Spring						
	ETGR 3295	Multidisciplinary Prof Development	1		Junior or Senior standing	
	ETGR 4200	Capstone Design Project II (O, W)	2		ETGR 4100	
	Major Elective ^(b)		3			
	Major Elective ^(b)		3			
	Major Elective ^(b)		3			
	LBST 2XXX	Refer to DegreeWorks for LBST course ^(d)	3			

Total 15

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

Course in **bold** must be taken as a co requisite

* = grade of C or better required in prerequisite course

Footnotes:

(b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major elective courses must be approved in writing by the ET Department.

(c) These courses must be completed with a grade of C or better.

DegreeWorks will state which LBST course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for LBST courses.

(d)

BSET Electrical Engineering Technology 2+2 Checksheet

Rev: Mar-21
 Catalog Date: 2022-2023

Last Name: _____ 0
 Student ID: _____

Community College: _____ CPCC
 Degree Program: _____

Community College Prerequisites

UNC Charlotte General	UNC Charlotte		NCCCS Acceptable Course	Course	Grade	MET
	Hrs	Course				
English Composition and/or Technical Writing	3	WRDS 1103	ENG 111, 112, 113, 114			NO
Differential and Integral Calculus	6	MATH1121 or ETGR2171	MAT 223, 263, 271			NO
		ETGR 2272	MAT 272			NO
Physics I +Lab	3	PHYS 1101	PHY 151, 251			NO
	1	PHYS 1101L				NO
Physics II +Lab	3	PHYS 1102	PHY 152, 252			NO
	1	PHYS 1102L				NO
DC Circuits	3	ELET 1211	ELC 131, 138			NO
AC Circuits	3	ELET 2112	ELC 133, 139			NO
DC/AC Circuits Lab	1	ELET 2113L	Hours included in NCCCS Circuits Courses			
Digital Circuits	3	ELET 1231	ELN 133			NO
Digital Circuits Lab	1	ELET 1231L				NO
Electronic Devices	3	ELET 2221	ELN 131, 137			NO
Electronic Devices Lab	1	ELET 2221L				NO
Microprocessors	3	ELET 2231	ELN 232, 233			NO
Instrumentation or PLCs and Associated Lab	3	ELET 2241	ELC 128, 213, ELN 260			NO
Instrumentation or PLCs Associated Lab	1	ELET 2241L				NO
C programming	3	ELET 1102	CSC 133, 134, 153, 233, 234			NO
Other ELET Specific / Technical Classes						

Concentration

APEN
Applied Energy

ELET 3141	Power Systems & Machines
ELET 4142	Power Electronics
ELET 4243	Power Networks
ENER 4140	Energy Management
ENER 4250	Analysis of Renewable Systems
ENER 4260	Hydrogen Production and Storage
ENER 4280	Fuel Cell Technology
ETCE 3271	Building Systems
SEGR 4961	Introduction to Energy Systems
SEGR 4962	Energy Markets

Need to check pre/co requisites for each class

Concentration

ELME
Electromechanical

ETGR 2101	Applied Mechanics I
ETME 3123	Fluid Mechanics
ETME 1111	CAD Modeling I
ETME 2102	Mechanism
ETME 2130	Applied Materials and Manufacturing
ETME 3113	Dynamics
ETME 3150	Applied CAD Modeling and Simulation
ENER 4290	Applied Instrumentation and Control

Need to check pre/co requisites for each class