

SAMPSON COMMUNITY COLLEGE

ELECTRICAL SYSTEMS TECHNOLOGY

OCCUPATIONAL PROGRAMS

The Electrical Systems Technology curriculum is designed to train people interested in installing and maintaining electrical systems found in residential, commercial, and industrial facilities.

Coursework is an adequate blend of hands-on, online, and face-to-face instruction, including AC/DC theory, wiring methods, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects such as local needs required.

Graduates should qualify for various jobs in the electrical field as on-the-job trainees or apprentices assisting in the layout, installation, and maintenance of electrical systems.



JACOB MILLER

Department Chair,
Air Conditioning, Heating, &
Refrigeration Technology

910-900-4143
jmillers@sampsoncc.edu



BEGIN HERE
go anywhere

910.592.8081 | sampsoncc.edu





Program Checklist

Program Title: Electrical Systems Technology

Effective Date: Fall 2023

Student Name:

Student ID:

CoDE Transition Courses:		Grade					
ENG-002	Transition English						
MAT-003	Transition Math						
Course Prefix	Course Title	Credit Hours	Degree (A35130)	Diploma (D35130)	Grade		
Fall Semester I							
ACA-122	College Transfer Success	1	X	X			
CIS-110 <u>or</u> DFT-119	Intro to Computers <u>or</u> Basic CAD	2-3	X				
ELC-112	DC/AC Electricity	5	X	X			
ELC-113	Residential Wiring	4	X	X			
ELC-118	National Electrical Code	2	X	X			
Communications: Choose one: COM-110, COM-120, COM-231, ENG-111, ENG-112, ENG-114		3	X	X			
Total Credit Hours			17-18	15			
Spring Semester I							
ELC-114	Commercial Wiring	4	X	X			
ELC-117	Motors and Controls	4	X	X			
Program Elective		3	X	X			
Natural Sciences/Math: Choose one: MAT 110, MAT 143, or MAT 171		3-4	X	X			
Total Credit Hours			14-15	14-15			
Summer Semester I							
Program Elective		3	X	X			
ELC-121	Electrical Estimating	2	X				
ELC-128	Intro to PLC	3	X	X			
Program Elective – Diploma only		2		X			
Total Credit Hours			8	8			
Fall Semester II							
ELC-119	NEC Calculations	2	X				
Program Elective		2	X				
Program Elective		3	X				
ELC-130	Advanced Motor Controls	3	X				
Communications: Choose one: COM-110, COM-120, COM-231, ENG-111, ENG-112, ENG-114		3	X				
Total Credit Hours			13	0			
Spring Semester II							
Program Elective		3	X				
Program Elective		3	X				
Humanities/Fine Arts: Choose one: ART-111, ART-114, ART-115, DRA-111, DRA-115, ENG-231, ENG-232, ENG-241, ENG-242, HUM-115, MUS-110, MUS-112, PHI-240, REL-110, REL-211, REL-212, REL-221		3	X				
Social/Behavioral Sciences: Choose one: ECO-251, ECO-252, HIS-111, HIS-112, HIS-121, HIS-131, HIS-132, POL-120, PSY-150, SOC-210, SOC-220, SOC-225		3	X				
Total Credit Hours			12	0			
Dates Awarded:							
Total Credits:			64-65	37-38			

Program Electives: AHR, ALT, BPR, BUS, CIS, CMT, CSC, CST, CTI, DFT, ELC, HYD, ISC, MEC, MNT, SPA-111, WBL, WLD (Max. 9 credits per prefix, except for

Course Prefix	Course Title	Credit Hours	Certificate (C35130) (C35130HS)	Industrial Maint. Certificate (C35130IM) (C35130HM)-HS	Renewable Energy Cert. (C35130RE) (35130HE)-HS	Industrial Electrical Certificate (C35130IE)	Electrical Technician Certificate (C35130ET)	Grade
ALT-120	Renewable Energy Tech.	3			X			
ELC-112	DC/AC Electricity	5	X	X	X	X	X	
ELC-113	Residential Writing	4	X				X	
ELC-114	Commercial Wiring	4	X				X	
ELC-117	Motors and Controls	4		X		X		
ELC-118	National Electrical Code	3				X		
ELC-220	Photovoltaic Sys Tech.	3			X			
ELC-221	Adv PV Sys Designs	3			X			
HYD-110	Hydraulics/Pneumatics I	3		X				
MNT-110	Intro to Maint. Procedures	2		X				
WLD-112	Basic Welding Processes	2		X				
Program Elective: ELC prefix or WBL(max. 2 hrs)		3					X	
Total Credits:			13	16	14	12	16	

WBL max. 8 credits).



Complete SCC Application & FAFSA



Meet with an advisor



Register and pay for classes

Admissions: 910.900.4319 | admissions@sampsoncc.edu

Financial Aid: 910.900.4320 | finaid@sampsoncc.edu

Learning Resource Center: 910.900.4309

Sampson Community College | 1801 Sunset Ave, Clinton, NC 28328 | 910.592.8081 | www.sampsoncc.edu

Sampson Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the associate degree. Sampson Community College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Sampson Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

The Board of Trustees and the Administration of Sampson Community College (SCC) are fully committed to the principles and practice of equal employment and educational opportunities. Accordingly, SCC does not practice or condone discrimination in any form, against students, employees, or applicants on the grounds of race, color, national origin, religion, sex, age, disability, or political affiliation. SCC commits itself to positive action to secure equal opportunity regardless of those characteristics.