

DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY

Revised Fall 2024
6 Semesters

ELECTRICAL SYSTEMS TECHNOLOGY
Associate Degree (A35130)

Catalog/Academic Year 2025-2026

Key to symbols after some courses:

* Developmental courses may be required based on college placement and course requisites.

** Requires prior approval by Work Based Learning Coordinator.

^{GE} Fulfills the general education requirements for this degree.

FIRST FALL SEMESTER

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
X			ACA 122 College Transfer Success	0	2	0	1	
		X	ELC 112 DC/AC Electricity	3	6	0	5	
		X	ELC 113 Residential Wiring	2	6	0	4	
X	X		ENG 111 Writing and Inquiry* ^{GE}	3	0	0	3	
		X	MAT 121 Algebra/Trigonometry I* ^{GE}	2	2	0	3	

FIRST SPRING SEMESTER

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
	X		COM 231 Public Speaking* ^{GE}	3	0	0	3	
		X	ELC 115 Industrial Wiring	2	6	0	4	
		X	ELC 117 Motors and Controls	2	6	0	4	
X			ELC 118 National Electrical Code	1	2	0	2	

FIRST SUMMER TERM

8 Weeks		Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
	X	CIS 110 Introduction to Computers	2	2	0	3	
	X	ELC 128 Intro to PLC	2	3	0	3	

SECOND FALL SEMESTER

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
X			BPR 111 Print Reading	1	2	0	2	
		X	ELC 228 PLC Applications	2	6	0	4	
		X	ELN 133 Digital Electronics	3	3	0	4	
	X		MNT 110 Intro to Maintenance Procedures	1	3	0	2	

SECOND SPRING SEMESTER

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
		X	ELC 213 Instrumentation	3	2	0	4	
		X	PHY 110 Conceptual Physics*	3	0	0	3	

		X	PHY 110A Conceptual Physics Lab*	0	2	0	1	
	X		SOC 210 Introduction to Sociology* ^{GE}	3	0	0	3	
X			ISC 112 Industrial Safety OR	2	0	0	2	Online
X			WBL 110 World of Work** AND	1	0	0	1	
		X	WBL 111 Work-Based Learning I**	0	0	10	0	

SECOND SUMMER TERM

8 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
X	ELC 215 Electrical Maintenance	2	3	0	3	
X	HUM 115 Critical Thinking* ^{GE}	3	0	0	3	

MINIMUM SEMESTER HOURS REQUIRED FOR AAS DEGREE

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For additional information about requirements and graduation, please refer to the [Curriculum Program Completion and Graduation](#) policy. Program-specific criteria may be found on the respective [Programs](#) page. For questions about this program, consult the Program Director or an advisor for assistance.