

**DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY**

Revised Fall 2024

**INDUSTRIAL SYSTEMS TECHNOLOGY**

Catalog/Academic Year 2025-2026

Day and Evening Program

Facilities Maintenance Tech

6 Semesters

Associate Degree (A50240F)

**Key to symbols after some courses:**

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

<sup>GE</sup> 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	X		ENG 111 Writing and Inquiry* <sup>GE</sup>	3	0	0	3	
		X	MAT 121 Algebra/Trigonometry I* <sup>GE</sup>	2	2	0	3	
	X		MNT 110 Intro to Maintenance Procedures	1	3	0	2	

**FIRST SPRING SEMESTER**

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
X			CIS 110 Introduction to Computers	2	2	0	3	
	X		COM 231 Public Speaking* <sup>GE</sup>	3	0	0	3	
		X	ELC 117 Motors and Controls	2	6	0	4	
X			ISC 112 Industrial Safety	2	0	0	2	

**FIRST SUMMER TERM**

8 Weeks		Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
X		ELC 128 Intro to PLC	2	3	0	3	
X		HUM 115 Critical Thinking* <sup>GE</sup>	3	0	0	3	
X		HYD 110 Hydraulics/Pneumatics I	2	3	0	3	
X		WLD 112 Basic Welding Processes	1	3	0	2	

**SECOND FALL SEMESTER**

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
		X	AHR 110 Intro to Refrigeration	2	6	0	5	
X			BPR 111 Print Reading	1	2	0	2	
		X	MEC 111 Machine Processes I	1	4	0	3	

**SECOND SPRING SEMESTER**

Term A	Term B	16 Weeks	Course	Hours Class	Hours Lab	Hours Work	Hours Credit	Program Remarks
		X	AHR 112 Heating Technology	2	4	0	4	
X			MNT 230 Pumps & Piping Systems	1	3	0	2	
	X		MNT 240 Industrial Equip Troubleshooting	1	3	0	2	
		X	WLD 121 GMAW (MIG) FCAW/Plate	2	6	0	4	

**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	PLU 111 Intro to Basic Plumbing	1	3	0	2	
X	SOC 210 Introduction to Sociology*GE	3	0	0	3	

**MINIMUM SEMESTER HOURS REQUIRED FOR AAS DEGREE****67**

*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.*