## DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY

Revised Fall 2022

Day and Evening Program
6 Semesters

# INDUSTRIAL SYSTEMS TECHNOLOGY Advanced Manufacturing Associate Degree (A50240A)

Catalog/Academic Year 2024-2025

# Key to symbols after some courses:

- \* Developmental courses may be required based on college placement and course requisites.
- GE Fulfills the general education requirements for this degree.

## **FIRST FALL SEMESTER**

Term	Term	16	Course	Hours	Hours	Hours	Hours	Program
Α	В	Weeks	Course	Class	Lab	Work	Credit	Remarks
X			ACA 122 College Transfer Success	0	2	0	1	
		Х	ELC 112 DC/AC Electricity	3	6	0	5	
Х	Х		ENG 111 Writing and Inquiry*GE	3	0	0	3	
		Х	MAT 121 Algebra/Trigonometry I*GE	2	2	0	3	
	Х		MNT 110 Intro to Maintenance Procedures	1	3	0	2	

## **FIRST SPRING SEMESTER**

Term	Term	16	Course	Hours	Hours	Hours	Hours	Program
Α	В	Weeks		Class	Lab	Work	Credit	Remarks
Х			CIS 110 Introduction to Computers	2	2	0	3	
	Х		COM 231 Public Speaking*GE	3	0	0	3	
		Х	ELC 117 Motors and Controls	2	6	0	4	
Х			ISC 112 Industrial Safety	2	0	0	2	

## **FIRST SUMMER TERM**

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

## **SECOND FALL SEMESTER**

Term	Term	16	Course	Hours	Hours	Hours	Hours	Program
Α	В	Weeks		Class	Lab	Work	Credit	Remarks
X			BPR 111 Print Reading	1	2	0	2	
		Х	ELC 228 PLC Applications	2	6	0	4	
Х			MAC 121 Introduction to CNC	2	0	0	2	
		Х	MEC 111 Machine Processes I	1	4	0	3	

## **SECOND SPRING SEMESTER**

Term	Term	16	Course	Hours	Hours	Hours	Hours	Program
Α	В	Weeks		Class	Lab	Work	Credit	Remarks
		Х	ELC 213 Instrumentation	3	2	0	4	
Х			MNT 230 Pumps & Piping Systems	1	3	0	2	
	Х		MNT 240 Industrial Equip Troubleshooting	1	3	0	2	
		Х	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
Х	ATR 218 Work Cell Integration	2	3	0	3	
Х	ELC 215 Electrical Maintenance	2	3	0	3	
X	SOC 210 Introduction to Sociology*GE	3	0	0	3	

# MINIMUM SEMESTER HOURS REQUIRED FOR AAS DEGREE

69

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