## **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 2023-2024

# Key to symbols after some courses:

\* Developmental courses (ENG 002 and/or MAT 003) may be required based on college placement and course requisites.

### **FALL SEMESTER 2023**

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

### **SPRING SEMESTER 2024**

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Clinical	Credit	Program Remarks	Notes
CIS 110 Introduction to Computers	2	2	0	3		
COM 231 Public Speaking*GE	3	0	0	3		
ELC 117 Motors and Controls	2	6	0	4		
ISC 112 Industrial Safety	2	0	0	2		

## **SUMMER TERM 2024**

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Clinical	Credit	Program Remarks	Notes
ELC 128 Intro to PLC	2	3	0	3		
HUM 115 Critical Thinking*GE	3	0	0	3		
HYD 110 Hydraulics/Pneumatics I	2	3	0	3		

### **FALL SEMESTER 2024**

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Clinical	Credit	Program Remarks	Notes
BPR 111 Print Reading	1	2	0	2		
ELC 228 PLC Applications	2	6	0	4		
MAC 121 Introduction to CNC	2	0	0	2		
MEC 111 Machine Processes I	1	4	0	3		
WLD 112 Basic Welding Processes	1	3	0	2		

GE Fulfills the general education requirements for this degree.

## **SPRING SEMESTER 2025**

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
ELC 213 Instrumentation	3	2	0	4		
MNT 230 Pumps & Piping Systems	1	3	0	2		
MNT 240 Industrial Equip Troubleshooting	1	3	0	2		
WLD 121 GMAW (MIG) FCAW/Plate	2	6	0	4		

### **SUMMER TERM 2025**

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Clinical	Credit	Program Remarks	Notes
ATR 218 Work Cell Integration	2	3	0	3		
ELC 215 Electrical Maintenance	2	3	0	3		
SOC 210 Introduction to Sociology*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 <u>Curriculum Program Completion</u> and <u>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.