

DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY

Revised Fall 2022

**INDUSTRIAL SYSTEMS TECHNOLOGY**

Catalog/Academic Year 2022-2023

Day and Evening Program

**Advanced Manufacturing**

6 Semesters

**Associate Degree (A50240A)**

**Key to symbols after some courses:**

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

<sup>GE</sup> Fulfills the general education requirements for this degree.

**FALL SEMESTER 2022**

Course	Hours Class	Hours Lab	Hours Clinical	Hours 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* <sup>GE</sup>	3	0	0	3		
MAT 121 Algebra/Trigonometry I* <sup>GE</sup>	2	2	0	3		
MNT 110 Intro to Maintenance Procedures	1	3	0	2		

**SPRING SEMESTER 2023**

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

**SUMMER TERM 2023**

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

**FALL SEMESTER 2023**

Course	Hours Class	Hours Lab	Hours Clinical	Hours 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		

**SPRING SEMESTER 2024**

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 2024**

Course	Hours Class	Hours Lab	Hours Clinical	Hours 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                      69**

*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.*