

DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY

Revised Fall 2019
6 Semesters

ELECTRICAL SYSTEMS TECHNOLOGY
Associate Degree (A35130)

Catalog/Academic Year 2019-2020

Key to symbols after some courses:

* Developmental courses (ENG 002 and/or MAT 003) 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.

FALL SEMESTER 2019

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
ACA 122 College Transfer Success	0	2	0	1	First semester	
ELC 112 DC/AC Electricity	3	6	0	5	Fall only; day/evening	
ELC 113 Residential Wiring	2	6	0	4	Fall-evening; spring-day	
ENG 111 Writing and Inquiry* ^{GE}	3	0	0	3		
MAT 121 Algebra/Trigonometry I* ^{GE}	2	2	0	3		

SPRING SEMESTER 2020

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
ELC 115 Industrial Wiring	2	6	0	4	Spring-only; evening	
ELC 117 Motors and Controls	2	6	0	4	Spring only; day/evening	
ELC 118 National Electrical Code	1	2	0	2	Fall-day; spring- evening	
ENG 112 Writing/Research in Disciplines ^{GE}	3	0	0	3		

SUMMER TERM 2020

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
CIS 110 Introduction to Computers	2	2	0	3		
ELC 128 Intro to PLC	2	3	0	3	Summer only; day/evening	
Humanities/Fine Arts Elective* ^{GE}				3		

FALL SEMESTER 2020

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
BPR 111 Print Reading	1	2	0	2	Fall only	
ELC 228 PLC Applications	2	6	0	4	Fall only; day/evening	
MNT 110 Intro to Maintenance Procedures	1	3	0	2	Fall only; evening	
Concentration Elective I				3-4		

SPRING SEMESTER 2021

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
ELC 213 Instrumentation	3	2	0	4	Spring only; day/weekend	
PHY 131 Physics – Mechanics* OR PHY 110 and PHY 110A Conceptual Physics and Lab*	3	2	0	4		
WBL 110 World of Work** AND WBL 111 Work-Based Learning I** OR ISC 112 Industrial Safety	0-2	0-10	0	2		

SUMMER TERM 2021

Course	Hours Class	Hours Lab	Hours Clinical	Hours Credit	Program Remarks	Notes
ELC 215 Electrical Maintenance	2	3	0	3	Summer only; evening	
Concentration Elective II				0-3		
Social/Behavioral Sciences Elective* ^{GE}				3		

MINIMUM SEMESTER HOURS REQUIRED FOR AAS DEGREE 66**Humanities/Fine Arts Elective** – Choose one of the following:

ART 111, ART 114, ART 115, ART 116, ART 117, ART 121, ART 131, ART 171, ART 240, ART 244, ART 281, DRA 122, ENG 231, ENG 232, ENG 241, ENG 242, ENG 273, HUM 110, HUM 115, HUM 120, HUM 122, HUM 150, HUM 160, MUS 110, MUS 112, PHI 215, PHI 240, REL 110, REL 211

Social Science/Behavioral Sciences Electives – Choose one of the following:

ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, POL 120, POL 220, PSY 150, SOC 210, SOC 220, SOC 225

Concentration Electives – Students will choose **one** concentration (Electrical or Mechatronics) and complete all electives listed in that track**Electrical Track**

Concentration Elective I – ELN 133 Digital Electronics (3-3-4; Fall only; day/evening)
Concentration Elective II – None

Mechatronics Track

Concentration Elective I – HYD 110 Hydraulics/Pneumatics I (2-3-3; Fall only; evening)
Concentration Elective II – ATR 218 Work Cell Integration (2-2-3; Summer only, day/evening)

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

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.