

# Cincinnati State Technical and Community College

## Electro-Mechanical Engineering Apprenticeship

AAS

REQUIRED COURSES:	Semester Hours
<b>Semester One (Summer)</b>	
CIT 105 OSHA 10 General Industry Safety	1
FYE 1XX First Year Experience Elective	1
MAT 125 Math	4
EMET 150 Introduction to Control and Robotics	3
EMET 191 Apprenticeship/Parallel Co-Op	1

<b>Semester Two</b>	
EET 131 Circuits Analysis	3
MAT 126 Math	4
PSET 110 Power Systems CAD	3
EMET 192 Apprenticeship/Parallel Co-Op	1

<b>Semester Three</b>	
EET 132 Circuits Analysis	4
EMET 180 Process Instrumentation	3
EMET 193 Apprenticeship/Parallel Co-Op	1

<b>Semester Four</b>	
ENG 101 English Composition	3
MET 111 Manufacturing Processes !	3
EMET 194 Apprenticeship/Parallel Co-Op	1

<b>Semester Five</b>	
EMET 240 PLCs, Motors, Motor Controls, Kinematics	3
EMET 245 Laser 1	3
ENG 10X English Composition	3
PHY XXX Physics Elective	3

<b>Semester Six</b>	
EMET 270 Robotics and Servomechanisms	4
EMET Electric Drive Mechanisms	4
MET 150 Statics and Strengths of Materials	3
XXX XXX Arts/Humanities or Social/Behavioral Electives	2

ELECTIVES	
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### First Year Experience Electives

FYE 100 College Survival Skills	1
FYE 105 College Success Strategies	2
FYE 110 Community College Experience	3

### English Composition Electives

ENG 102 English Composition 2: Contemporary Issues	3
ENG 104 English Composition 2: Technical Communication	3

**Mathematics Electives (take one of following series)**

MAT 125 Algebra and Trigonometry & MAT 126 Functions and Calculus or	3
MAT 251 Calculus 1 and MAT 252 Calculus 2	3

**Physics Elective**

PHY 151 Physics 1: Algebra and Trigonometry-Based	4
PHY 201 Physics 1: Calculus-Based	5

**Arts/Humanities Elective**

Any ART, CULT, FRN, LIT, MUS, PHI, REL, SPIN, THE or COMM130	
EET 121 Digital Systems 1	3
ESET 251 Electronics	4
Met 140 Engineering Materials	3

**PATHWAY TAB INFORMATION**

Course Name	Postsecondary Institution	Credit Type	Hours
MET 111 Manufacturing Processes 1	Cincinnati State Technical and Community College	CTAG	3
PSET 110 Power Systems CAD	Cincinnati State Technical and Community College	Bilateral	3
EET 131 Circuit Analysis 1	Cincinnati State Technical and Community College	CTAG	3