Engineering Technology
G3 Curriculum

PVCC
PIEDMONT VIRGINIA
COMMUNITY COLLEGE
Opportunity. Access. Excellence.

Engineering Technology AAS
Electronics Specialization
Level 3
Certifications: Emerson PLC 7700, 7701

15 Credits
67 Total AAS Credits

Fall Semester
ETR 237 Industrial Electronics I (3)
ELE 239 Programmable Controllers (3)
ETR 230 Mechatronic Process
 Control (3)
Spring Semester
ETR 238 Industrial Electronics II (3)
ETR 286 Principles and Applications of
 Robotics (3)

Engineering Technology AAS
Mechanical Specialization
Level 3
Certifications: Emerson PLC 7700, 7701

16 Credits
68 Total AAS Credits

Fall Semester
MEC210 Machine Design (3)
ELE 239 Programmable Controllers (3)
IND 251 Automated Manufacturing
 Systems (3)
Spring Semester
MEC212 Machine Design II (4)
ETR 286 Principles and Applications of
 Robotics (3)

Required Courses for AAS
All Levels

13 Credits

SDV 100 Orientation (1)
ENG 111 College Composition I (3)
ENG 112 College Composition II (3)
___ ___ Humanities Elective (3)
___ ___ Social Science Elective (3)

Electronics Technician
Level 2
Certifications: ETA CETa, SnapOn
Multimeter

18 Credits

Fall Semester
ETR 114 DC AC Fundamentals II (4)
ETR 156 Digital Circuits and Micro-
 processor Fundamentals (4)
Spring Semester
ETR 243 Digital, Analog, and Data
 Communication Sys I (3)
ETR 203 Electronic Devices I (4)
ETR 290 Coordinated Internship (3)

Mechanical Technician
Level 2
Certifications: MT1, SnapOn Precision
Measurement Instruments

18 Credits

Fall Semester
MEC112 Processes of Industry (3)
IND250 Intro to Basic Computer
 Integrated Manufacturing (3)
MEC155 Mechanisms (3)
Spring Semester
MEC131 Mechanics I - Statics for
 Engineering Technology(3)
MEC161 Basic Fluid Mechanics -
 Hydraulics/Pneumatics (3)
MEC290 Coordinated Internship (3)

Manufacturing Technician
Level 1
Certifications: CSWA, OSHA 10, EM-1, EM-
2, EM-3

21 Credits

Fall Semester
SAF130 Industrial Safety-OSHA 10 (1)
ETR113 DC AC Fundamentals I (4)
ETR 140 Introduction to
 Mechatronics (3)
MTH131 Technical Math (3)
Spring Semester
CAD 151 Engineering Drawing
 Fundamentals (3)
ITP 132 C++ Programming I (4)
IND 116 Applied Technology (3)