Chemeketa Community College | **Waldport High School**

Industrial Electronics - Associated Degree Pathway

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. *Individualize your coursework to meet your educational and career goals while referring to these recommended coursework.*

Computer Hardware and Repair at Waldport High School

(1) Required classes for pathway completion are shaded (2) Optional classes for pathway enhancement are bolded (3) Earn college credit

9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English
Math	Math	Elective	Elective
Applied Arts / Foreign Language	Social Science	Social Science	Social Science
Science	Science	Elective	Career Related Learning Experience
PE / Health	PE / Health	Elective	Elective
Foundations of IT (3)	Elective	Elective	Elective
StRUT (1) (3)	Elective	Elective	***Work Based Learning*** (2)

With a HS diploma you can work as a… (a)

- Electronics Sales ($29,519-$30,741)

Additional Schooling

(1 & 2 Year Programs)

- Industrial Electronics–Associate of Applied Science – 6 terms

Similar 1 and 2 year programs maybe available at other community colleges and technical training schools.

Industrial Electronics Program at Chemeketa Community College

*Earn college credit for this course(s) by taking the appropriate high school course

Associate of Applied Science (AAS)

Prerequisites	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
CS101 Intro to Computer Applications	ELT111 Electronics orientation	MTH112 Trigonometry (or higher) or MTH082 Technical Math 2	ELT133 Electronic Concepts 3	ELT121 Programming Concepts 1 or CS133J Fundamentals of Java Programming 1	ELT253 Microprocessor Systems	**ELT254 *** **Computer Hardware** Can be 4 of 6 Engineering Electronics electives
CA121A Keyboarding A (if less than 25 wpm)	ELT131 Electronics Concepts 1	ELT132 Electronic Concepts 2	ELT142 Semiconductor Devices	ELT244 Electronic Circuit Analysis	ELT262 Linear IC Applications	ELT291 Advanced Industrial Electronics
MTH070 Elementary Algebra	DRF101	ELT141 Transistor Fundamentals	ELT143 Pulse Circuit Fundamentals	ELT252 Digital Circuit Applications	PH202 General Physics or PH082 Applied Physics	PSY104 Psychology in the Workplace
RD090 College Textbook Reading	WR121 English Composition - Exposition	ELT151 Digital Fundamentals	ELT161 Linear IC Fundamentals	FE205B Resumes and Job Search Correspondence		
WR049 Basic Writing	MTH081 Technical Mathematics 1 or MTH111 College Algebra (or higher)		WR227 Technical Writing	PH201 General Physics or PH081 Applied Physics		
	MTH110 Microelectronics			SP111 Fundamentals of Public Speaking		

With a Certificate of Completion (b)

- n/a

With an Associate of Applied Science Degree (b)

- Electrical and Electronic Installer and Repair ($46,866)
- Electro-Mechanical Technicians ($37,763)

With a Bachelor Degree (c)

- Electronics Engineer ($71,063)

Additional Schooling

(4 Year Programs)

- Electrical Engineering Technology –*Oregon State University*

Similar 4 year programs maybe available at other colleges.

(a) These occupations usually require a high school diploma, short-term (less than a month) to moderate-term(less than a year) on-the-job training.
(b) These occupations usually require associate degree, postsecondary certificate, and/or long-term (more than a year) on-the-job training.
(c) These occupations usually require a bachelor degree and work experience. In some cases a master's degree.