Chemeketa Community College

Computer Electronics - Associated Degree Pathway

Waldport High School

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)

- Computer Retail Sales ($24,405)
- Computer Operator ($32,102)

Additional Schooling (1 & 2 Year Programs)

- Computer Electronics Program – Associate of Applied Science – 6 terms

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

Computer 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	**ELT254 * Computer Hardware** or CS145 Microcomputer Hardware	ELT222 Programming Concepts 2 or CS140U Unix/Linux or CS140S Solaris-UNIX Operating Systems or CS179 Introduction to Client-Server Networks
CA121A Keyboarding A (if less than 25 wpm)	ELT131 Electronics Concepts 1	ELT132 Electronic Concepts 2	ELT142 Semiconductor Devices	ELT244 Electronic Circuit Analysis	ELT253 Microprocessor Systems	
MTH070 Elementary Algebra	NET123 Computer Operating Systems	ELT151 Digital Fundamentals	ELT143 Pulse Circuit Fundamentals	ELT252 Digital Circuit Applications	CS278 Data Communications	
RD090 College Textbook Reading	WR121 English Composition - Exposition		ELT161 Linear IC Fundamentals	FE205B Resumes and Job Search Correspondence	PH202 General Physics or PH082 Applied Physics	ELT255 Advanced Data Communications or CS279 Network Management
WR049 Basic Writing	MTH081 Technical Mathematics 1 or MTH111 College Algebra (or higher)		WR227 Technical Writing	PH201 General Physics or PH081 Applied Physics		
					PSY104 Psychology in the Workplace	ELT256 Advanced Computer Architecture
				SP111 Fundamentals of Public Speaking		ELT283 Logical Troubleshooting

With a Certificate of Completion (b)

- n/a

With an Associate of Applied Science Degree (b)

- Computer Support Specialist ($40,079)
- Computer, Automated Teller, and office Machine Repairer ($36,494)

With a Bachelor Degree (c)

- Computer Software Engineer ($82,668)
- Network and Computer Systems Administrator ($63,778)

Additional Schooling (4 Year Programs)

- Computer Science – *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.

8/30/2007