PC Microprocessor Systems Technician

Certificate of Completion

2009-10 Academic Year

Major Code: 150303C

About the Program

The PC Microprocessor Systems Technician one-year certificate is designed for students seeking entry-level positions servicing, upgrading, and repairing personal computer and microprocessor-based equipment. The coursework emphasizes electronics studies aimed at the hardware portion of the field as well as computer science courses involving operating systems, networking, and related software applications.

Technical courses involve lecture, lab work, and real-world experience in the lab using industry standard test equipment and practices. This program will help students gain skills for entry into one of today's most dynamic occupations. Typical occupations include those of PC support technicians, network specialists, microcomputer technicians, and field service technicians. Training also provides excellent positioning for lateral movement into areas such as technical sales or technical writing.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Electronics Technology Department head's recommendation. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. Official transcripts must be filed with Enrollment Services and the Electronics Technology Department.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
—	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) [1]	0-4
MTH20	Pre-algebra (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR30	Fundamentals of Composition II (or designated placement test score as shown on current indicator chart)	4

Required Courses

Course No.	Course Title	Credits
First Term		
EET112	Introduction to Mechatronics	5
EET115	PC Electronics I	5
MTH63	Applied Technical Math or	
MTH60	Fundamentals of Algebra I or higher level math	4
WR115	Introduction to Expository Writing or higher level composition	3
		17
Second Term		
CS140	Introduction to Operating Systems	4
EET130	Digital Fundamentals I	5
MTH65	Fundamentals of Algebra II or higher level math or program elective if MTH65 requirement met	4
9.167	Emergency First Aid or approved health elective (see RCC catalog for approved list of electives)	1-3
		14-16
Third Term		
CS227	PC Hardware Fundamentals and Repair	5
CS280	Cooperative Work Experience/Computer Science or	
EET280	Cooperative Work Experience/Electronics or approved program elective	4-6
EET131	Digital Fundamentals II	5
PSY101	Psychology of Human Relations or	
BT101	Human Relations in Organizations	3
		17-19
TOTAL PROGRAM CREDITS		**48-52**

Approved Program Electives

Course No.	Course Title	Credits
BT121	Introduction to e-Commerce	3
CS125	Any computer science course CS125 or above	3-4
CS179	Introduction to Networks	4
EET101	Introduction to Electronics	3
EET102	Industrial Electronics for Manufacturing	5
EET103	Electronics Drafting	3
EET105	Electromechanical Systems	3
EET106	Electronic Assembly	3
EET118	Introduction to Renewable Energy Systems	3
EET199	Selected Topics in Technology	1-6
EET220	Solid State Devices	6
GS104	Physical Science w/lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG230	Statistics and Quality Control	3
MTH95	Intermediate Algebra	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4

[1] Required for graduation. Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

For more information contact the Electronics Technology Department:

Grants Pass or Medford. . . . . (541) 245-7894

Toll free in Oregon . . . . . (800) 411-6508, Ext. 7894

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TTY . . . . . (541) 956-7338 or (541) 245-7587

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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