

Computer Hardware / Software Design A.A.S.

This program offers exciting and rewarding opportunities in the rapidly developing computer hardware/software industry.

Degree Requirements

This curriculum provides the knowledge and skill in both hardware and software needed to enter a professional career in computer design.

The curriculum listed on this page represents the minimum coursework required for the A.A.S. degree in Computer Hardware/Software Design. Any exception must have the written consent of the chair of the Division of Natural and Health Sciences, Mathematics, and Technology.

A background in algebra and trigonometry is recommended.

Career Possibilities

Entry-level positions for technicians in various fields of computers, and in programming, computer operations, communications, computer science, and automation.

Transfer Information

Students planning to transfer should contact their advisers and/or a transfer counselor in the Student Development Office for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

Map your degree

Courses		Cr Hrs	Semester Completed	Grade
First Semester				
ENGL 101	Freshman English 1	3	_____	_____
ELEC 101	Electrical Circuits	4	_____	_____
ELEC 105	Introduction to Digital Computers	4	_____	_____
C.S. 120	Foundations of Computer Science	3	_____	_____
MATH 104	College Algebra and Trigonometry	3	_____	_____
		17		
Second Semester				
ENGL 102	Freshman English II or ENGL 270 Technical Writing	3	_____	_____
ELEC 102	Basic Electronics	4	_____	_____
ELEC 107	Fund. of Microcomputers	4	_____	_____
C.S. 200	Programming in Visual Basic	3	_____	_____
MATH 106	Pre-Calculus	3	_____	_____
	Physical Education	1	_____	_____
		18		
Third Semester				
BUS 225	Application Software	3	_____	_____
C.S. 080	Microcomputer Maintenance	1	_____	_____
C.S. 222	Programming in C/C++	3	_____	_____
	Behavioral/Social Sciences	3	_____	_____
	Elective*	3-4	_____	_____
	Health	1	_____	_____
	Physical Education	1	_____	_____
		15-16		
Fourth Semester				
BUS 226	Advanced Application Software	3	_____	_____
C.S. 225	Intro to Networks	3	_____	_____
C.S. 238	Java	3	_____	_____
	Behavioral/Social Sciences	3	_____	_____
	Technical Elective **	3	_____	_____
		15		

Total Credit Hours 65-66

* Recommended electives:

- C.S. 219 Database Management Systems
- C.S. 228 Introduction to Unix/Linux
- C.S. 235 Web Page Design
- C.S. 236 Advanced Visual Basic
- C.S. 237 Internet Security
- ELEC 209 Programmable Logic Controllers

** ELEC 209 or CS 228 or CS 236

