Computer Hardware Engineering Technology Concentration (9418)

Associate of Applied Science Degree

Computer Hardware Engineering Technology graduates are prepared with the skills necessary to enter careers in the design, application, installation, operation, and/or maintenance of computer systems.

Note: Students transferring to a four-year college are encouraged to take ENGL 1120 English Composition II *in addition to the following requirements.*

Course	Title	Credit Hours
First Semester		
ELEC 1120	Direct Current Circuit Analysis	2
ENGL 1110 or ENGL 1111	English Composition I (A) [1] or English Composition I (B)	3
ENGR 1000	Introduction to Engineering Technology	2
FYEX 1000	First Year Experience	1
MATH 1400	Technical Mathematics [2]	4
Select course(s) from the Arts and Humanities Electives list		3
	Credit Hours	**15**
Second Semester		
BUSM 1300	Introduction to Business	3
CPET 1120	C Programming for Engineering Technology	3
ELEC 1220	Alternating Current Circuit Analysis	2
ELEC 1260	Direct Current and Alternating Current Laboratory	1
ELEC 1330	Digital Systems Fundamentals	2
PHYS 1550	Everyday Physics	3
Select course(s) from the Arts and Humanities or Social and Behavioral Electives list		3
	Credit Hours	**17**
Third Semester		
CNET 1100	Cisco Networking Technology I	3
CNET 1200	Cisco Networking Technology II	3
ELEC 2120	Linear and Switch-Mode Power Supplies	2
ELEC 2420	Microcontroller Applications	2
ELEC 2460	Digital Systems and Microcontroller Laboratory	1
ITCS 1011	History of Computing	2
Select course(s) from the Social and Behavioral Electives list		3
	Credit Hours	**16**
Fourth Semester		
CNET 1300	Cisco Networking Technology III	3
COMM 1000 or COMM 1100	Effective Public Speaking or Effective Interpersonal Communications	3
CPET 1050	Assembling, Upgrading and Repairing Personal Computers	2
ELEC 2610	Embedded Systems Project Lab	3
ITIS 1025	Managing and Optimizing Personal Computers	3
ITON 1070	Operating Systems: Skills and Techniques	1
	Credit Hours	**15**
	Total Credit Hours	**63**

[1] English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

2

Students planning to transfer to a four-year university should consider taking MATH 1650 College Algebra (A) and MATH 1700 Trigonometry

☛ This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Electives

Course	Title	Credit Hours
Arts and Humanities Electives		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
HUMX 1200	The American Experience in the Arts	3
MUSC 1200	Music Appreciation	3
MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3
Social and Behavioral Sciences Electives		
ANTH 1160	Introduction to Cultural Anthropology	3
ECON 1150	Basic Economics	3
ECON 2500	Principles of Macroeconomics	3
ECON 2600	Principles of Microeconomics	3
GEOG 1500	Introduction to Geography	3
GEOG 1600	World Regional Geography	3
HIST 1150	Western Civilization I: Antiquity Through the Reformation	3
HIST 1250	Western Civilization II: Age of Revolution Through the Present	3
HIST 2150	U.S. History: Colonization Through Reconstruction	3
HIST 2250	U.S. History: Reconstruction to the Present	3
POLS 1300	U.S. National Government	3
POLS 2500	Modern Political Ideologies	3
PSYC 1500	Introduction to Psychology	3
SOCY 1150	Principles of Sociology	3