CYBER SYSTEMS TECHNOLOGY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN NETWORK SECURITY AND ELECTRONICS (B.S.)

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's Associate in Applied Science Degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

Program Requirements

CIP Code: 15.1299

Major

Code	Title	Hours
University Graduation Requirements		
General Education (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/)		36
Foundations of Learning		
GSD 101	Foundations of Learning	3
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
Major Requirements		
Core Courses		
AEM 202	Introduction to Quality	3
AEM 310	Technical Communication	3
AEM 408	Human Resource Development	3
EET 252	Digital Electronics	3
NET 302	PC Troubleshooting & Construction	3
NET 303	LANs & PC Communications	3
NET 343	Network Switches & Routers	3
NET 349	Applied Learning in NET	1
NET 354	Microcomputer & Network Security	3
NET 403	Advanced LANSs and PC Communication	3
NET 361	Cloud Technology Foundations	3
NET 499	Senior Capstone	3
Major Electives		
AEM 407	Fundamentals of Project Management	3
or CIS 410	Project Management and Practice	
AEM 352	Robotics and Automated Systems	3
or EET 253		
or EET 351	Programmable Logic Controllers	
or NET 440	Wired/Wireless Communications	
TEC 161	Computer Applications in Technology	3
or INF 104	Computer Literacy with Software Applications	
Concentrations		
Students must select one of the following Concentrations:		
Network Security & Electronics		24
Tech Systems		
Supporting Course Requirements		
ECO 120	Economic Reasoning and Issues (or higher) (Element 5B) [G]	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) [G]	
PHY 101	Conceptual Physics (or higher) (Element 4) [G]	
STA 215	Introduction to Statistical Reasoning	3-4
or STA 270	Applied Statistics	
Choose from three hours of ACC, AEM, CCT, CIS, FIN, MGT, MKT, or RMI electives as approved by major advisor		3
Free Electives		
Choose from 9-10 hours of free electives		9-10
(Up to five semester hours of Upper Division courses, including Cooperative Education, may be needed for meeting the 42 hour requirement. Students with an ACT Math sub-score of 19-21 may consider taking CSC 101 (The World of Code) to build computing competencies early in the degree program.)		
Exit Requirements		
NET 467	Exit Exam for BS in NET (CR only, no hours)	0
Total Hours		**120**

G Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.

Concentration

Code	Title	Hours
Concentration Courses		
EET 251	Electricity and Electronics	3
EET 257	Electronic Devices and Circuits	3
NET 344	Advanced Network Devices	3
NET 395	Special Topics in NET	3
NET 454	Wireless/WAN Security	3
Choose from nine hours of CSC, CIS, or INF courses of the following:		9
CSC 160	Introduction to Web Programming (or higher)	
CIS 215	Introduction to Business Programming (or higher)	
INF 130	3D Printing (or higher)	
Total Hours		**24**