

CYBER SYSTEMS TECHNOLOGY, BACHELOR OF SCIENCE (B.S.) & TECHNOLOGY MANAGEMENT MASTER OF SCIENCE (M.S.) [CYBER SYSTEMS TECH SECURITY CONCENTRATION] ACCELERATED 3+2 DUAL DEGREE PROGRAM

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

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).

Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

Program Requirements

CIP Code: 15.1299

Summary Checklist for General Education

Code	Title	Hours
Element 1		
A:	Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
B:	Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
C:	Oral Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/)	3
Element 2		
	Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/)	3
Element 3		
A:	Arts (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)	3
B:	Humanities (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/)	3
Element 4		
	Natural Sciences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/)	6
Element 5		
A:	Historical Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/)	3
B:	Social Behavioral Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/)	3
Element 6		
	Diversity of Perspectives Experiences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/)	6
Total Hours		36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

Code	Title	Hours
University Graduation Requirements		
General Education		36
<i>Student Success Seminar</i>		
SCO 100	Student Success Seminar (waived for transfers with 30+ hrs.)	1
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
Major Requirements		
<i>Core Courses</i>		
AEM 202	Introduction to Quality	3
AEM 310W	Technical Communication	3

AEM 408	Human Resource Development	3
AEM 804	Project Management	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 395	Special Topics in NET	3
NET 403	Advanced LANSs and PC Communication	3
NET 499	Senior Capstone	3
NSM 815	Foundations of Network Sec	3
NSM 845	Advanced Server Security	3

Major Electives

AEM 352	Robotics and Automated Systems	3
or EET 253	Microprocessor Control Systems	
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:

Cyber Systems Tech Security	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	4
or STA 270	Applied Statistics	

Free Electives

Choose from 6 hours of free electives	6
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Exit Requirements

Students must take an exit examination before graduation. An exam fee is required.

NET 467	Exit Exam for BS in NET	0
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Total Hours	120
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Course also satisfies a General Education element. A maximum of six hours will count toward Element 4. 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
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Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.)

See Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.) (<http://catalogs.eku.edu/graduate/science-technology-engineering-mathematics/applied-engineering-technology/technology-management-concentration-cyber-systems-tech-security-ms/>)