## CURRICULUM GUIDE

Department of Computer Science and Information Technology (CSIT)

3+2 Cyber Systems Technology (Network Security and Electronics Concentration), B.S. 3+2 CST (NET) and
Applied Engineering and Technology Management (Network Security Management Concentration), M.S.
2023-2024
521 Lancaster Ave.
417 Wallace Bldg.
Richmond, KY 40475

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859-622-2398 3+2 CST (NET) Program Coordinator: vigs.chandra@eku.edu TM Program Coordinator: dennis.field@eku.edu

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester	
Freshman Year	SCO 100	1	NET 302	
	EET 252	3	NET 303	3
	TEC 161 <u>or</u> INF 104	3	EET 257	3
	EET 251	3	† Concentration Elective	3
	<sup>G</sup> MAT 112A <u>and</u> 112B ( <b>or higher,</b>		Gen. Ed 1B ( <i>ENG 102</i> )	3
	such as MAT 114 or 120) (fulfills			3
	Gen. Ed. 2)	3		3
	Gen. Ed. 1A ( <i>ENG 101</i> )	3		
	TOTAL	16	TOTAL	15
Sophomore Year	AEM 352, EET 253, EET 351, <u>or</u>		<sup>6</sup> ECO 120 (or higher) (fulfills Gen.	
	NET 440	3	Ed. 5B)	3
	NET 354	3	NET 343	3
	NET 395	3	NET 349	1
	† Concentration Elective	3	STA 215 <u>or</u> 270	3-4
	Gen. Ed. 1C (Comm.)	3	<sup>G</sup> PHY 101 (or higher) (fulfills Gen.	
			Ed. 4)	3-4
			Gen. Ed. 3B ( <i>Humanities</i> )	3
	TOTAL	15	TOTAL	16-17
Junior	AEM 202	3	AEM 310W	3
Year	NET 344	3	NET 403	3
	NET 395	3	Gen. Ed. 3A (Arts)	3
	† Concentration Elective	3	Gen. Ed. 4 ( <i>Nat. Sci.</i> )	3
	Free Elective (Co-op recommended)	3	Free Elective (Co-op	
		3	recommended)	3
	TOTAL	15	TOTAL	15
Senior	AEM 804	3	AEM 408	3
Year	NET 454	3	NET 499 (ACCT)	3
	NSM 815	3	NET 467	0
		3	NSM 845	3
	Gen. Ed. 5A ( <i>History</i> )	3	Gen. Ed. 6 ( <i>Diversity</i> )	3
	Gen. Ed. 6 ( <i>Diversity</i> )		Free Elective (Co-op recommended)	0-1
	TOTAL	15	TOTAL	12-13
Senior +1	AEM 801	3	AEM 821 <u>or</u> 839	3
Year	NSM 895	3	MS Supporting Course Requirement	3
	TEC 830	3	MS Supporting Course Requirement	3
	TEC 860	3		
	TOTAL	12	TOTAL	9
		Т	OTAL HOURS TO DEGREE COMPLETION	141

\* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at http://www.catalogs.eku.edu/ regarding University and General Education Requirements.

Course	
Number	Course Name
	ATION & UNIVERSITY REQUIREMENTS (37)
SCO 100	Student Success Seminar (1)
CORE COURSE	REQUIREMENTS (43)
AEM 202	Introduction to Quality (3)
AEM 310W	Technical Communication (3) (writing
AEM 408	intensive) Human Resource Development (3)
AEM 804	Project Management (3)
EET 252	Digital Electronics (3)
NET 302 NET 303	PC Troubleshooting and Construction (3)
NET 343	LANs and PC Communications (3) Network Switches and Routers (3)
NET 349	Applied Learning in NET (1)
NET 354	Microcomputer and Network Security (3)
NET 395 NET 403	Special Topics in NET (3) Advanced LANs and PC Communication (3)
NET 499	Senior Capstone (3) (spring only)
NSM 815	Foundations of Network Security (3)
NSM 845	Advanced Server Security (3)
PROGRAM ELE	
Select THREE (3	
AEM 352 EET 253	Robotics and Automated Systems (3) Microprocessor Contro Systems (3)
EET 351	Programmable Logic Controllers (3)
NET 440	Wired/Wireless Communications (3)
Select THREE (3	) HOURS from:
INF 104	Computer Literacy with Software Applications (3)
TEC 161 NETWORK SEC	Computer Applications in Technology (3) JRITY AND ELECTRONICS CONCENTRATION
REQUIREMENT	
EET 251	Electricity and Electronics (3)
EET 257	Electronic Devices and Circuits (3)
NET 344 NET 395	Advanced Network Devices (3) Special Topics in NET (3)
NET 454	Wireless/WAN Security (3)
† PLUS NINE (9)	HOURS of CSC/CIS/INF courses (CSC 160 or higher), or (CIS 215 or
	30 or higher) (concentration electives)
	OURSE REQUIREMENTS (3-4)
<sup>6</sup> ECO 120 <sup>6</sup> MAT 112A <u>and</u>	Economic Reasoning and Issues (3) Algebra: Polynomials (1.5)
<sup>G</sup> MAT 112B	Algebra: Functions and Matrices (1.5)
<sup>G</sup> PHY 101	Conceptual Physics (3)
	Introduction to Statistical Reasoning (3)
STA 215 <u>or</u> STA 270	Applied Statistics (4)
STA 270	Applied Statistics (4)
STA 270	
STA 270 EXIT REQUIREN NET 467	IENT ( <i>0</i> ) Exit Exam for BS in NET ( <i>0</i> )
STA 270	IENT ( <i>0</i> ) Exit Exam for BS in NET ( <i>0</i> )
STA 270 EXIT REQUIREN NET 467 FREE ELECTIVES Co-operative edu	IENT (0) Exit Exam for BS in NET (0) S (6-7) ucation, NET 349, recommended as free electives or NET 395
STA 270 EXIT REQUIREN NET 467 FREE ELECTIVES Co-operative edu	1ENT <i>(0)</i> Exit Exam for BS in NET <i>(0)</i> S (6-7)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edu (Special Topics in	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) ucation, NET 349, recommended as free electives or NET 395 I NET) taken with a unique topic.
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edu (Special Topics in M.S. TECHNO	AENT (0) Exit Exam for BS in NET (0) S (6-7) Jucation, NET 349, recommended as free electives or NET 395 NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH
STA 270 EXIT REQUIREN NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNO SECURITY CO	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) ucation, NET 349, recommended as free electives or NET 395 I NET) taken with a unique topic.
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSE COURTED IN the ur	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Ucation, NET 349, recommended as free electives or NET 395 INET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE counted in the un AEM 801	Exit Exam for BS in NET (0) Exit Exam for BS in NET (0) (6-7) ucation, NET 349, recommended as free electives or NET 395 NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are integraduate program and graduate program) Economics for Lean Operations (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSE COURTED IN the un	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) UCOSY MANAGEMENT (CYBERSYSTEMS TECH NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are idergraduate program and graduate program)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNO SECURITY CO CORE COURSE counted in the un AEM 801 AEM 804 TEC 830	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are idergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNO SECURITY CO CORE COURSE counted in the un AEM 801 AEM 804 TEC 830	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) UCC MANAGEMENT (CYBERSYSTEMS TECH NET) taken with a unique topic. EVLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are Indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE CONTEGIN THE AEM 801 AEM 801 AEM 801 TEC 830 PLUS SIX (6) HOL TEC 860 and [ AEM 821 <u>or</u> ]	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DUGGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JIRS of synthesis experience: Research in Technology (3) Industrial Technology (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE! M.S. TECHNC SECURITY CO CORE COURSE! COURTE! NEM 804 TEC 830 PLUS SIX (6) HOU TEC 860 and AEM 821 or AEM 823	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) UCAL STATES (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edit (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSEI COUNTED in the um AEM 801 AEM 804 TEC 860 <u>and</u> AEM 821 <u>or</u> AEM 839 CYBER SYSTEM	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DUGGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JIRS of synthesis experience: Research in Technology (3) Industrial Technology (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative ed (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE COUNTED IN 100 AEM 804 TEC 830 PLUS SIX (6) HOU TEC 860 and AEM 821 or AEM 821 or AEM 839 CYBER SYSTEM and graduate pro	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Ucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indegraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) URS of synthesis experience: Research in Technology (3) Industrial Technology (3) Industrial Technology (3) Applied Learning in Tech Management (3) S TECH SECURITY CONCENTRATION REQUIREMENTS (9) (5/x ISM 815 and NSM 845 are counted in the undergraduate program program)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edu (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSE counted in the um AEM 801 AEM 804 TEC 860 <u>and</u> AEM 821 <u>or</u> AEM 839 CYBER SYSTEM (6) credits from h and graduate pro NSM 815	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JRS of synthesis experience: Research in Technology (3) Industrial Technology (3) Applied Learning in Tech Management (3) STECH SECURITY CONCENTRATION REQUIREMENTS (9) (5/x VSM 815 ond NSM 845 are counted in the undergraduate program broundations of Network Security (3)
STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSE CONTED IN 10 CORE COURSE CONTED IN 10 CONTED IN 10	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JIRS of synthesis experience: Research in Technology (3) Industrial Technology (3) Industrial Technology (3) STECH SECURITY CONCENTRATION REQUIREMENTS (9) (Six VSM 815 and NSM 845 are counted in the undergraduate program orgam) Foundations of Network Security (3) Advanced Server Security (3)
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STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE Counted in the AEM 804 TEC 830 PLUS SIX (6) HOU TEC 860 and AEM 821 ar AEM 823 CYBER SYSTEM (6) credits from H SYSTEM SUPPORTING C	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Ucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JRS of synthesis experience: Research in Technology (3) Industrial Technology (3) Applied Learning in Tech Management (3) S TECH SECURITY CONCENTRATION REQUIREMENTS (9) (5/x VSM 815 and NSM 845 are counted in the undergraduate program advanced Server Security (3) Advanced Server Security (3) Special Topics in NSM:(3)
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STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNC SECURITY CO CORE COURSE counted in the um AEM 804 TEC 830 PLUS SIX (6) HOU TEC 860 and AEM 821 ar AEM 839 CYBER SYSTEM (6) aredits from h SIS MASS SUPPORTING C Consult with adv EXIT REQUIREM	AENT (0)     Exit Exam for BS in NET (0)     S(6-7)     ucation, NET 349, recommended as free electives or NET 395     INET) taken with a unique topic.     DOGY MANAGEMENT (CYBERSYSTEMS TECH     NCENTRATION) REQUIREMENTS (30)     REQUIREMENTS (15) (Three (3) credits from AEM 804 are     Idergraduate program and graduate program)     Economics for Lean Operations (3)     Project Management (3)     Creative Problem Solving (3)     JRS of synthesis experience:     Research in Technology (3)     Industrial Technology (3)     St Eccl Stecurity CONCENTRATION REQUIREMENTS (9) (5ix     Synth St and NSM 845 are counted in the undergraduate program     Gram)     Foundations of Network Security (3)     Advanced Server Security (3)     Special Topics in NSM:     G3)     OURSE REQUIREMENTS (6)     viros to choose appropriate courses.
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STA 270 EXIT REQUIREM NET 467 FREE ELECTIVES Co-operative edi (Special Topics in M.S. TECHNIC SECURITY CO CORE COURSE counted in the un AEM 801 AEM 801 AEM 804 TEC 860 and AEM 821 or AEM 830 PLUS SIX (6) HOL TEC 860 and AEM 830 CVBER SYSTEM (6) credits from N and graduate por SUPPORTING C Consult with adv EXIT REQUIREM GRD 868B	AENT (0) Exit Exam for BS in NET (0) 5 (6-7) Jucation, NET 349, recommended as free electives or NET 395 in NET) taken with a unique topic. DLOGY MANAGEMENT (CYBERSYSTEMS TECH NCENTRATION) REQUIREMENTS (30) REQUIREMENTS (15) (Three (3) credits from AEM 804 are indergraduate program and graduate program) Economics for Lean Operations (3) Project Management (3) Creative Problem Solving (3) JRS of synthesis experience: Research in Technology (3) Industrial Technology (3) Industrial Technology (3) Industrial Technology (3) STECH SECURITY CONCENTRATION REQUIREMENTS (9) (5/x ISM 815 and NSM 845 ore counted in the undergraduate program argram) Foundations of Network Security (3) Advanced Server Security (3) Special Topics in NSM:(3) OURSE REQUIREMENTS(6) bisor to choose appropriate courses. <b>IENT (0)</b> MS Applied Engineering and Technology Management Oral Comprehensive Exam
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