## **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 Technology Management (Cyber Systems Tech Security Concentration), M.S., TM (CSTS)

## 2022-2023

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Richmond, KY 40475

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.

Sco 1.00         EET 257           Freshman Year         Sco 1.00         EET 257           Sco 1.00         EET 257           TTC 1.12 (ar) (IF 1.04)         3           AMM 7112 (ar) (112) (ar) (116)         3           Gen. Ed. 10 (EKT 361)         3           Gen. Ed. 10 (EKT 361)         3           Gen. Ed. 10 (EKT 351, EM 352, EET 253, <u>ar</u> )         6           NET 343         1           NET 343         1           NET 343         1           NET 440)         3           NET 343         1           NET 343         1           NET 343         1           NET 345         NET 343           NET 345         NET 345           NET 345 <td< th=""><th>F</th><th>all Semester</th><th></th><th>Spring Semester</th><th></th><th>Course Number</th><th>Course Name</th></td<>	F	all Semester		Spring Semester		Course Number	Course Name
EFT 252         3         NFT 302         3         Sto 10         Student Success Semilar (1)           (TE C 16 12 µF 104)         3         NFT 303         3         NFT 303         3           9 MAT 112A and 112B (or higher; such as MAT 114 or 120) (julijils Gen. Ed. 14 [NS 102)         3         CORE COURSE REQUERTMENTS (3)           6 Gen. Ed. 2)         3         CORE COURSE REQUERTMENTS (3)         Adm 304           6 Gen. Ed. 3.1         (NFT 302         3         CORE COURSE REQUERTMENTS (3)           7 OTAL         16         TOTAL         18         NET 330           10 FT 340         3         C.6. 76.0         3         Hered science and bacters and b						GENERAL EDUCA	TION & UNIVERSITY REQUIREMENTS (37)
Left 232         TR 302         3           ITC C 16 gr INF 104)         3         NR 302         3           ICC C 16 gr INF 104)         3         NR 302         3           ICR C 16 gr INF 104)         3         Concentration Elective         3           ICR C 16 gr INF 104)         3         Concentration Elective         3           ICR C 102 (urbit 124 cm 1128 (urbit 124 cm 1128 (urbit 124 cm 1128					2	SCO 100	Student Success Seminar (1)
EET 251         -         3         † Concentration Elective         3         Concentration Elective         3           • MAT 1124 or 120) (fulfills Gen. Ed. 2)         -			-				
a MAT 112A and 1128 (or higher, such as MAT 112A and 1128 (or higher, Gen. Ed. 2)         Gen. Ed. 1B (ENG 102)         3         AtM 302         Introduction to Quality (3) AtM 303           TOTAL         16         TOTAL         16         TOTAL         18           Sophomore Year         (EET 351, AEM 352, EET 253, gr. NET 354         *EC 0 120 (or higher) (fulfills Gen. Ed. 56)         3         NET 343         1           NET 345         3         NET 343         1         NET 343         NET 343           NET 354         3         NET 345         1         NET 343         NET 343           NET 345         3         NET 345         1         NET 345         NET 345           Gen. Ed. 12 (Oral Comm.)         3         (STA 257 gr 270)         3         NET 345           Gen. Ed. 12 (Oral Comm.)         3         (FET 350 gr 270)         NET 345         NET 345           Junior         AEM 302         3         AEM 310         3         Red 40 an and socies control system of Netrol Socies control system						CORE COURSE RE	EQUIREMENTS (43)
************************************			3			AEM 202	Introduction to Quality (3)
Gen. Ed. 2)         Gen. Ed. 3)         Gen. Ed. 4)				Gen. Ed 1B ( <i>ENG 102</i> )			
One Cut - 10         Oracle - 10 <thoracle -="" 10<="" th=""> <thoracle -="" 10<="" th=""></thoracle></thoracle>					3		Human Resource Development (3)
Offen to La (Er0 201)         3           TOTAL         16         TOTAL         18           Sophomore Year         (EET 351, AEM 352, EET 253, <u>or</u> <sup>6</sup> ECO 120 (or higher) (fulfills Gen.         18           NET 340         3         Ed. 5B)         3         NET 343         11           NET 354         3         NET 343         11         NET 355         3         NET 345         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         12 </td <td></td> <td>Gen. Ed. 2)</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Gen. Ed. 2)					
TOTAL         16         TOTAL         18           Sophomore Year         (EET 351, AEM 352, EET 253, <u>or</u> ) <sup>6</sup> EC 0120 (or higher) (fulfills Gen.         3           NET 343         NET 343         1         NET 343         NET 343           NET 355         3         NET 343         1           NET 355         3         NET 343         1           Year         Concentration Elective         3         (STA 215 gz 270)         NET 483           Year         TOTAL         15         TOTAL         16-17           TOTAL         15         OTAL         16-17           Year         AEM 202         3         AEM 310         3           Senior Call         3         Gen. Ed. 3 (Humonities)         3         Gen. Ed. 3 (Arrs)           Year         NET 343         Gen. Ed. 4 (Not. Sci.)         3         Gen. Ed. 4 (Not. Sci.)           Year         AEM 804         AEM 408         3         Gen. Ed. 4 (Not. Sci.)         3           Year         AEM 804         AEM 408         3         Gen. Ed. 6 (Div. of per. and exp.)         3           Free Elective (K27 JS or Co-op         recommended)         Free Elective (K27 JS or Co-op         NT 40         NT 40	Ge	en. Ed. 1A ( <i>ENG 101</i> )	3				
Sophomore Year         IDTRL         10           NET 440)         3         EC 320         * EC 120 (or higher) (fulfills Gen.         3           NET 440)         3         Ed. 58)         3         NET 343         NET 343           NET 354         3         NET 343         1         NET 355         3         NET 343         NET 343         NET 343         NET 439         Advanced LANs and Pc Communits         NET 439         Advanced 1ANs and Pc Communits         NET 439         Advanced 1ANs and Pc Communits         NET 430         NET 439         Advanced 1ANs and Pc Communits         NET 430         Select THRE 130 NOLKS from:	T	ΟΤΑΙ	16	τοτοι	10		LANs and PC Communications (3)
NET 440)         Ed. 5B)         For 54 (1, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54			10				Network Switches and Routers (3)
NET 354         3 NET 343         NET 343         1 NET 349         NET 361 (Concentration Elective Gen. Ed. 1C (Oral Comm.)         NET 343         1 NET 349         NET 361 (Second Comm.)         NET 362 (Second Comm.)         NET 363 (Second Comm.)         NET 362 (Second Comm.)         NET 363 (Second Comm.)         NET 363 (Second Comm.)         NET 362 (Second Comm.)         NET 363 (Second Comm.)		· · · ·	2		-		
NET 395         Senior 2015 (spring out) (sp							Microcomputer and Network Security (3)
NE1 395         3         NE1 439         3-4         NET 499         3-4           Y Concentration Elective Gen. Ed. 12 (Oral Comm.)         3         (STA 215 org 270)         <			-				Advanced LANs and PC Communication (3)
Gen. Ed. 1C (Oral Comm.)     3     GPHY 101 [or higher) (fulfills Gen.     3       Image: Comparison of the second of			-		3-4		Senior Capstone (3) (spring only)
Ed. 4)     3       Gen. Ed. 38 (Humanities)     Gen. Ed. 38 (Humanities)       TOTAL     16-17       Junior     AEM 202     3       Year     AEM 202     3       NET 344     3       NET 361     3       'Concentration Elective     3       Free Elective (Co-op recommended)     3       Free Elective (Co-op recommended)     3       Free Elective (Co-op recommended)     3       Senior     AEM 804     3       NET 354     3       Year     AEM 804     3       NET 454     3       Senior     AEM 804     3       NET 454     3       Senior     AEM 804     3       Senior +1     AEM 804     3       Senior +1     AEM 801     3       Senior +1     Gen. Ed. 6 (Div. of per. and exp.)     3       Gen. Ed. 6 (Div. of per. and exp.)     3       Gen. Ed. 6 (Div. of per. and exp.)     3       Gen. Ed. 6 (Div. of per. and exp.)     3       Free Elective (Co-op recommended)     0-1       Un			-				Foundations of Network Security (3)
Gen. Ed. 3B (Humanities)JuniorAEM 30YearTOTAL16-17JuniorAEM 2023AEM 3103YearNET 3443NET 4033NET 3613Gen. Ed. 3A (Arts)3YearTOTAL15TOTAL15SeniorAEM 8043AEM 4083YearNET 4543NET 4673Senior +1 YearAEM 8013AEM 4023Senior +1 YearAEM 8013AEM 821or and exp.)Senior +1 YearAEM 8013AEM 821 or 8393Gen. Ed. 6 (Div. of per. and exp.)3Gen. Ed. 6 (Div. of per. and exp.)3Senior +1 YearAEM 8013AEM 821 or 8393Gen. Ed. 6 (Div. of per. and exp.)3Gen. Ed. 7 (rd module of the for counder and for the for counder and for the for counder and for the for coun	Ge	en. Ed. 1C ( <i>Oral Comm.</i> )	3	<sup>G</sup> PHY 101 (or higher) (fulfills Gen.			
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Junior YearAEM 2023 NET 344AEM 3103 NET 403EET 353Microprocessor Control System Wicroprocessor Control System Wicroproce				Gen. Ed. 3B (Humanities)		Select THREE (3)	HOURS from:
JuniorAEM 2023AEM 3103YearNET 3443NET 4033YearNET 3613Gen. Ed. 3A (Arts)3Free Elective ( <i>Co-op recommended</i> )3Gen. Ed. 4 ( <i>Nat. Sci.</i> )3Free Elective ( <i>Co-op recommended</i> )3Free Elective ( <i>NET 395</i> or <i>Co-op recommended</i> )3TOTAL15TOTAL15SeniorAEM 8043AEM 4083YearAEM 8043NET 4543Senior +1Gen. Ed. 5A ( <i>History</i> )3NET 499 ( <i>ACCT</i> )HUS Nike (9) HOURS of SCC/ICS/INF course (SC 11Gen. Ed. 6 ( <i>Div. of per. and exp.</i> )3Senior +1Senior +1AEM 8013YearAEM 8013AEM 821 or 8393NET 467YearTOTAL15TOTAL12-13Senior +1Computer 10 and exp.)3AEM 821 or 8393YearTEC 8603Requirement3TEC 8303RS Supporting CourseRequirement3TEC 8303RS Supporting CourseRequirement3TEC 8303RS Supporting CourseRequirement3GRD 868b or GRD 867c)0MS. Stecknin With a unique topic.	тс	OTAL	15	TOTAL	16-17	AEM 352	Robotics and Automated Systems (3)
Year       NET 344       3       NET 403       3         NET 361       3       Gen. Ed. 3A (Arts)       3         † Concentration Elective       3       Gen. Ed. 3A (Arts)       3         Free Elective (Co-op recommended)       3       Free Elective (NET 395 or Co-op recommended)       NET 440         TOTAL       15       TOTAL       15         Senior       AEM 804       3       AEM 408       3         NET 454       3       NET 467       3         NSM 815       3       NET 499 (ACCT)       NET 454         Gen. Ed. 5 ( <i>History</i> )       3       Gen. Ed. 6 ( <i>Div. of per. and exp.</i> )       3       Free Elective (Co-op recommended)       0-1 <i>(Undergraduate Complete applications and tappe) (accentration electives (Co-op recommended)</i> 0-1       *       * <b>TOTAL</b> 15       TOTAL       12-13       *       *         Senior +1       AEM 801       3       AEM 821 or 839       3       *       *       *       *       *       *        *	nior Af	EM 202	3	AEM 310	3		Microprocessor Control Systems (3)
NET 361     3     Gen. Ed. 3 (Arts)     3 <sup>+</sup> Concentration Elective       3       Gen. Ed. 4 (Arts)       3 <sup>+</sup> Concentration Elective (Co-op recommended)       3       Gen. Ed. 4 (Arts)       3          Free Elective (Co-op recommended)       3       Free Elective (NET 395 or Co-op recommended)       3           TOTAL       15       TOTAL       15         Senior        AEM 804       3       AEM 408       3         NET 454       3       NET 457       3         NSM 815       3       NET 459 (ACCT)       NET 454       NET 454         Gen. Ed. 5A (History)       3       Gen. Ed. 6 (Div. of per. and exp.)       3       Free Elective (Co-op recommended)       NET 454       NET 454       NET 454       NET 454       Security (3)         Gen. Ed. 5A (History)       3       Gen. Ed. 6 (Div. of per. and exp.)       3       Free Elective (Co-op recommended)       0-1       1       PULS NINE (9) HOURS of CSC/CIS/INF courses (CSC 16)         Norticestructure       Introduction of the security (3)       Free Elective (Co-op recommended)       0-1       1       1       10       10       10       NET 450       NET 450       10       10       10       10       10       10       10 <td>ar Ni</td> <td>ET 344</td> <td>3</td> <td>NET 403</td> <td>3</td> <td></td> <td>Programmable Logic Controllers (3)</td>	ar Ni	ET 344	3	NET 403	3		Programmable Logic Controllers (3)
<sup>†</sup> Concentration Elective <sup>†</sup> Concentration Concentration Elective <sup>†</sup> Concentration Concentration Elective	N	ET 361	3	Gen. Ed. 3A (Arts)	3		
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NSM 8153NET 499 (ACCT)Gen. Ed. 5A (History)3NSM 8453Gen. Ed. 6 (Div. of per. and exp.)3Gen. Ed. 6 (Div. of per. and exp.)3Gen. Ed. 6 (Div. of per. and exp.)3Gen. Ed. 6 (Div. of per. and exp.)3Free Elective (Co-op recommended)0-11(Undergraduate Complete = 120 hrs. + Grad = 9 hrs.12-13Senior +1 YearAEM 8013AEM 821 or 8393NMS 8953MS Supporting Course Requirement3EXIT REQUIREMENT (o)TEC 8303MS Supporting Course Requirement3TEC 8303MS Supporting Course Requirement3GRD 868b or GRD 867c)0M.S. TECHNOLOGY MANAGEMENT (CYBER			-				
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TOTAL15TOTAL12-13Senior +1 YearAEM 8013AEM 821 or 8393NMS 8953MS Supporting CourseSta Z15 or TEC 8603RequirementTEC 8303MS Supporting CourseCooperative education, NET 349, recommended as free (special Topics in NET) taken with a unique topic.GRD 868b or GRD 867c)0MS. Stephorting Course							
TOTAL15TOTAL12-13Senior +1 YearAEM 8013AEM 821 or 8393NMS 8953MS Supporting Course Requirement3NET 467TEC 8303MS Supporting Course Requirement3GRD 868b or GRD 867c)0MS. TECHNOLOGY MANAGEMENT (CYBER				· · · · · · · · · · · · · · · · · · ·			Algebra: Functions and Matrices (1.5)
TOTAL15TOTAL12-13STA 270Applied Statistics (4)Senior +1 YearAEM 8013AEM 821 or 8393EXIT REQUIREMENT (0)NMS 8953MS Supporting Course TEC 8603Requirement3TEC 8303MS Supporting Course Requirement3FEE ELECTIVES (6-7)GRD 868b or GRD 867c)0M.S. TECHNOLOGY MANAGEMENT (CYBER				<u>= 120 hrs. + Grad = 9 hrs.</u>			
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Year     NMS 895     3     MS Supporting Course       TEC 860     3     Requirement     3       TEC 830     3     MS Supporting Course     Co-operative education, NET 349, recommended as free (Special Topics in NET) taken with a unique topic.       (GRD 868b or GRD 867c)     0	тс	OTAL	15	TOTAL	12-13		
TEC 860       3       Requirement       3         TEC 830       3       MS Supporting Course       7         Requirement       3       3       (GRD 868b or GRD 867c)       0         M.S. TECHNOLOGY MANAGEMENT (CYBER)       MS.       MS.       1	enior +1 AF	EM 801	З	AEM 821 <u>or</u> 839	3	EXIT REQUIREME	ENT (0)
TEC 830 3 MS Supporting Course Requirement 3 (GRD 868b or GRD 867c) 0 Co-operative education, NET 349, recommended as free (Special Topics in NET) taken with a unique topic. M.S. TECHNOLOGY MANAGEMENT (CYBER	ar N	MS 895	3	MS Supporting Course		NET 467	Exit Exam for BS in NET (0)
TEC 830 3 MS Supporting Course Requirement 3 (GRD 868b or GRD 867c) 0 Co-operative education, NET 349, recommended as free (Special Topics in NET) taken with a unique topic. M.S. TECHNOLOGY MANAGEMENT (CYBER	TE	EC 860	3	Requirement	3	FREE ELECTIVES (	(6-7)
Requirement       3         (GRD 868b or GRD 867c)       0         M.S. TECHNOLOGY MANAGEMENT (CYBER	TE	EC 830	3				
(GRD 868b or GRD 867c) 0 M.S. TECHNOLOGY MANAGEMENT (CYBER			-		3		
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					Ŭ	M.S. TECHNOL	OGY MANAGEMENT (CYBERSYSTEMS TECH
	т	ΟΤΑΙ	12	TOTAL	9		•
			12		3		EQUIREMENTS (15) (Three (3) credits from AEM 804 are
counted in the undergraduate program and argulate p							
TOTAL HOURS TO DEGREE COMPLETION 141 AEM 801 Economics for Lean Operations (3)			f	JTAL HOUKS TO DEGREE COMPLETION	141	AEM 801 E	conomics for Lean Operations (3)
PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major.	PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major.						
TEC 830 Creative Problem Solving (3)							

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. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103.

Applied Critical & Creative Thinking (ACCT) Requirement: Cyber Systems Technology majors will fulfill ACCT with NET 499. (Credit hours are incorporated into program requirements.)

> Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. reauirement.

TEC 860 <u>and</u>

NSM 815

NSM 845

NSM 895

GRD 867c or

**GRD 868b** 

and graduate program)

**EXIT REQUIREMENT (0)** 

PLUS SIX (6) HOURS of synthesis experience:

SUPPORTING COURSE REQUIREMENTS (6) Consult with advisor to choose appropriate courses.

Research in Technology (3)

(AEM 821 or Industrial Technology Project (3) AEM 839) Applied Learning in Tech Management (3) CYBER SYSTEMS TECH SECURITY CONCENTRATION REQUIREMENTS (9) (Six

(3)

MS Applied Engineering and Technology Management Written

MS Applied Engineering and Technology Management Oral

(6) credits from NSM 815 and NSM 845 are counted in the undergraduate pro

Foundations of Network Security (3)

Advanced Server Security (3)

Comprehensive Exam

Comprehensive Exam

Special Topics in NSM: