Course

Number

3+2 Cyber Systems Technology (Tech Systems Concentration), B.S. 3+2 CST (TS) and Technology Management (Cyber Systems Tech Security Concentration), M.S., TM (CSTS) 2022-2023

521 Lancaster Ave. 417 Wallace Bldg. Richmond, KY 40475

859-622-2398

Website: www.csit.eku.edu

Email Contact: kuangnan.chang@eku.edu

3+2 CST (TS) Program Coordinator: vigs.chandra@eku.edu TM Program Coordinator: dennis.field@eku.edu

**Course Name** 

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	† Concentration Elective	3	† Concentration Elective	3
	† Concentration Elective	3	† Concentration Elective	3
	SCO 100	1	Free elective (Gen. Ed. 3A	
	(TEC 161 or INF 104)	3	recommended)	3
	<sup>G</sup> MAT 112A <u>and</u> 112B ( <b>or higher,</b>		Free elective ( <i>Gen. Ed. 5A</i>	
	such as MAT 114 or 120) (fulfills		recommended)	3
	Gen. Ed. 2)	3	Gen. Ed 1B ( <i>ENG 102</i> )	3
	Gen. Ed. 1A ( <i>ENG 101</i> )	3	Gem 20 15 (2/10 102)	J
	TOTAL	16	TOTAL	15
Sophomore Year	† Concentration Elective	3	† Concentration Elective	3
	† Concentration Elective	3	† Concentration Elective	3
	Free elective (Gen. Ed. 3A		<sup>G</sup> PHY 101 (or higher) (fulfills Gen.	
	recommended)	3	Ed. 4)	3
	Gen. Ed. 1C (Oral Comm.)	3	(STA 215 <u>or</u> 270)	3-4
	<sup>G</sup> ECO 120 (or higher) (fulfills Gen.		Gen. Ed. 3B (Humanities)	3
	Ed. 5B)	3		
	TOTAL	12-13	TOTAL	15-16
Junior	AEM 202	3	AEM 310W	3
Year	EET 252	3	NET 343	3
	NET 302	3	NET 354	3
	NET 303	3	NET 395	3
	Gen. Ed. 3A (Arts)	3	NET 403	3
	TOTAL	15	TOTAL	15
Senior	AEM 804	3	AEM 408	3
Year	(EET 351, AEM 352, EET 253, <u>or</u>		NET 467	0
	NET 440)	3	NET 499 ( <i>ACCT</i> )	3
	NET 349	1	NSM 845	3
	NSM 815	3	Gen. Ed. 4 (Nat. Sci.)	3
	Gen. Ed. 5A ( <i>History</i> )	3	Gen. Ed. 6 (Div. of per. and exp.)	3
	Gen. Ed. 6 ( <i>Div. of per. and exp.</i> )	3		
			(Undergraduate Complete	
			= 120 hrs. + Grad = 9 hrs.	
	TOTAL	16	TOTAL	15
Senior +1	AEM 801	3	AEM 821 <u>or</u> 839	3
Year	NMS 895	3	MS Supporting Course	
	TEC 860	3	Requirement	3
	TEC 830	3	MS Supporting Course	
			Requirement	3
			(GRD 868b or GRD 867c)	0
	TOTAL	12	TOTAL	9
		т	OTAL HOURS TO DEGREE COMPLETION	141

<sup>\*</sup> 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 <a href="http://www.catalogs.eku.edu/">http://www.catalogs.eku.edu/</a> regarding University and General Education Requirements. All baccaloureate 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. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.a., AEM 310W).

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

SCO 100	ATION & UNIVERSITY REQUIREMENTS (37)  Student Success Seminar (1)	
	EQUIREMENTS (43)	
AEM 202	Introduction to Quality (3)	
AEM 310W AEM 408	Technical Communication (3) (writing intensive) Human Resource Development (3)	
AEM 804	Project Management (3)	
EET 252	Digital Electronics (3)	
NET 302	PC Troubleshooting and Construction (3)	
NET 303	LANs and PC Communications (3)	
NET 343 NET 349	Network Switches and Routers (3)  Applied Learning in NET (1)	
NET 354	Microcomputer and Network Security (3)	
NET 395	Special Topics in NET (3)	
NET 403	Advanced LANs and PC Communication (3)	
NET 499 NSM 815	Senior Capstone (3) (spring only) Foundations of Network Security (3)	
NSM 845	Advanced Server Security (3)	
PROGRAM ELEC		
Select THREE (3)		
AEM 352 EET 253	Robotics and Automated Systems (3) Microprocessor Control 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	Computer Applications in Technology (3)	
	CONCENTRATION REQUIREMENTS (24)	
	(24) HOURS of course work in computer systems, electricity an	
	networking related technical electives as approved by major accentration is recommended for transfer students).	
	DURSE REQUIREMENTS (3-4)	
<sup>G</sup> ECO 120	Economic Reasoning and Issues (3)	
<sup>6</sup> MAT 112A <i>and</i>	Algebra: Polynomials (1.5)	
<sup>G</sup> MAT 112B	Algebra: Functions and Matrices (1.5)	
<sup>G</sup> PHY 101	Conceptual Physics (3)	
STA 215 <u>or</u>	Introduction to Statistical Reasoning (3)	
STA 270	Applied Statistics (4)	
EXIT REQUIREM	ENT (0)	
NET 467	Exit Exam for BS in NET (0)	
FREE ELECTIVES	(6-7)	
	cation, NET 349, recommended as free electives or NET 395	
	NET) taken with a unique topic.	
M.S. TECHNO	LOGY MANAGEMENT (CYBERSYSTEMS TECH	
	NCENTRATION) REQUIREMENTS (30)	
	EQUIREMENTS (15) (Three (3) credits from AEM 804 are	
	dergraduate program and graduate program)	
AEM 801 I	Economics for Lean Operations (3)	
	Project Management (3)	
	Creative Problem Solving (3) RS of synthesis experience:	
TEC 860 <u>and</u> (AEM 821 <u>or</u>	Research in Technology (3) Industrial Technology Project (3)	
(AEW 821 <u>or</u> AEM 839)	Applied Learning in Tech Management (3)	
	TECH SECURITY CONCENTRATION REQUIREMENTS (9) (Six	
(6) credits from N.	SM 815 and NSM 845 are counted in the undergraduate progran	
and graduate pro		
NSM 815 NSM 845	Foundations of Network Security (3)	
NSW 845 NSM 895	Advanced Server Security (3) Special Topics in NSM: (3)	
	DURSE REQUIREMENTS (6)	
	sor to choose appropriate courses.	
	** *	
EXIT REQUIREM	* *	
	MS Applied Engineering and Technology Management Written	
GRD 867c <u>or</u>	r omnrehensive Evam	
	Comprehensive Exam  MS Applied Engineering and Technology Management Oral	
	MS Applied Engineering and Technology Management Oral	
GRD 867c <u>or</u> GRD 868b		