CURRICULUM GUIDE

Department of Computer Science and Information Technology (CSIT)

Cyber Systems Technology (Tech Systems Concentration), CST (TS) 2022-2023

521 Lancaster Ave. 417 Wallace Bldg.

Website: https://www.eku.edu/csit/ Email Contact: kuangnan.chang@eku.edu Richmond, KY 40475 859-622-2398

CST (TS) program coordinator: vigs.chandra@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		Course Number	Course Name
Freshman	† Concentration Elective	3	† Concentration Elective	3		CATION & UNIVERSITY REQUIREMENTS (37)
	† Concentration Elective	3	† Concentration Elective	3	SCO 100	Student Success Seminar (1)
Year	SCO 100	1	Free elective (Gen. Ed. 3A	3	CORE COURSE REQUIREMENTS (34)	
	(TEC 161 or INF 104)	3	recommended)			
	G MAT 112A and 112B (or higher,		Free elective (<i>Gen. Ed. 5A</i>		AEM 202 AEM 310	Introduction to Quality (3)
	such as MAT 114 or 120) (fulfills		recommended)	3	AEM 408	Technical Communication (3) Human Resource Development (3)
	Gen. Ed. 2)	3	Gen. Ed 1B (<i>ENG 102</i>)	3	EET 252	Digital Electronics (3)
	Gen. Ed. 1A (<i>ENG 101</i>)	3	Gen. 2d 15 (2116 162)	•	NET 302	PC Troubleshooting & Construction (3)
	Gen. Ed. 1A (ENG 101)	3			NET 303	LANs & PC Communications (3)
	TOTAL	16	TOTAL	15	NET 343	Network Switches & Routers (3)
	TOTAL	10	IOTAL	15	NET 349	Applied Learning in NET (1)
Sophomore	† Concentration Elective	3	† Concentration Elective	3	NET 354	Microcomputer & Network Security (3)
•	† Concentration Elective	3	† Concentration Elective	3	NET 395	Cloud Technology Foundations (3)
Year	Free elective (Gen. Ed. 3A		^G PHY 101 (or higher) (fulfills		NET 403	Advanced LANs and PC Communication (3)
	recommended)	0-1	Gen. Ed. 4)	3	NET 499	Senior Capstone (3) (spring only)
	Gen. Ed. 1C (Oral Comm.)	3	(STA 215 or 270)	3-4	PROGRAM ELE	
	^G ECO 120 (or higher) (fulfills Gen.	3	Gen. Ed. 3B (Humanities)	3	AEM 407	3) HOURS from:
	Ed. 5B)	_		_	AEIVI 407	Fundamentals of Project Management (3) (fall only)
					CIS 410	Project Management and Practice (3)
	TOTAL	12-13	TOTAL	15-16		3) HOURS from:
	IOIAL	12 13	TOTAL	13 10	AEM 352	Robotics and Automated Systems (3)
Junior	AEM 202	3	AEM 310	3	EET 253	Microprocessor Control Systems (3)
	EET 252	3	NET 343	3	EET 351	Programmable Logic Controllers (3)
Year	NET 302	3	NET 354	3	NET 440	Wired/Wireless Communications (3)
	NET 303	3	NET 361	3	•	3) HOURS from:
	Gen. Ed. 3A (Arts)	3	NET 403	3	INF 104	Computer Literacy with Software
	Gen. Ed. SA (Arts)	3	1421 403	3	TT0 4 64	Applications (3)
					TECH SYSTEMS	Computer Applications in Technology (3) S CONCENTRATION REQUIREMENTS (24)
	TOTAL	15	TOTAL	15		UR (24) HOURS of course work in computer
						ricity and electronics, and networking related
Senior	(AEM 407 or CIS 410)	3	AEM 408	3	•	tives as approved by major adviser. (This
Year	(EET 351, AEM 352, EET 253, <u>or</u>		NET 467	0		is recommended for transfer students).
ı Cai	NET 440)	3	NET 499 (<i>ACCT</i>)	3		COURSE REQUIREMENTS (6-7)
	NET 349	1	Gen. Ed. 4 (Nat. Sci.)	3	^G ECO 120	Formario Bossoning and Jasues (2)
	Supporting Course Elective	3	Gen. Ed. 5A (<i>History</i>)	3	^G MAT 112A <i>aı</i>	Economic Reasoning and Issues (3) nd Algebra: Polynomials (1.5)
	Gen. Ed. 6 (Div. of per. and exp.)	3	Gen. Ed. 6 (Div. of per. and exp.)	3	^G MAT 112A <u>01</u>	Algebra: Fortholials (1.5) Algebra: Functions and Matrices (1.5)
	Free Elective (Co-op, NET 395,				^G PHY 101	Conceptual Physics (3)
	or NET 454 recommended)	2-4			STA 215 <u>or</u>	Introduction to Statistical Reasoning (3)
	TOTAL	15-17	TOTAL	15	STA 270	Applied Statistics (4)
	1.0.7.2	15 17	10.7.2		‡ PLUS THREE	(3) HOURS of AAC, AEM, CCT, CIS, FIN, MGT,
						pper division electives as approved by major
TOTAL HOURS TO			HOURS TO DEGREE COMPLETION	120		orting course elective)
					EXIT REQUIRE	MACRIT (O)

^{*} 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. 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.)

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.

IN. MGT. l by major EXIT REQUIREMENT *(0)* **NET 467** Exit Exam for BS in NET (0) FREE ELECTIVES (9-10) Co-operative education, NET 349, recommended as free electives or NET 395 (Special Topics in NET) taken with a unique

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