

CURRICULUM GUIDE

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

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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 Year	SCO 100	1	NET 302	3	GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
	EET 252	3	NET 303	3	SCO 100	Student Success Seminar (1)
	TEC 161 or INF 104	3	† Concentration Elective	3	CORE COURSE REQUIREMENTS (34)	
	† Concentration Elective	3	† Concentration Elective	3	AEM 202	Introduction to Quality (3)
	° MAT 112A <i>and</i> 112B (or higher, such as MAT 114 or 120) (fulfills Gen. Ed. 2)	3	Gen. Ed 1B (ENG 102)	3	AEM 310W	Technical Communication (3) (writing intensive)
	Gen. Ed. 1A (ENG 101)	3			AEM 408	Human Resource Development (3)
	TOTAL	16	TOTAL	15	EET 252	Digital Electronics (3)
Sophomore Year	AEM 352, EET 253, EET 351, <i>or</i> NET 440	3	° ECO 120 (or higher) (fulfills Gen. Ed. 5B)	3	NET 302	PC Troubleshooting and Construction (3)
	NET 354	3	NET 343	3	NET 303	LANs and PC Communications (3)
	† Concentration Elective	3	NET 349	1	NET 343	Network Switches and Routers (3)
	† Concentration Elective	3	STA 215 <i>or</i> 270	3-4	NET 349	Applied Learning in NET (1)
	Gen. Ed. 1C (Comm.)	3	° PHY 101 (or higher) (fulfills Gen. Ed. 4)	3	NET 354	Microcomputer and Network Security (3)
			Gen. Ed. 3B (Humanities)	3	NET 395	Special Topics in NET (3)
	TOTAL	15	TOTAL	16-17	NET 403	Advanced LANs and PC Communication (3)
Junior Year	AEM 202	3	AEM 310W	3	NET 499	Senior Capstone (3) (spring only)
	NET 395 <i>or</i> NET 440	3	NET 403	3	PROGRAM ELECTIVES (9)	
	† Concentration Elective	3	‡ Supporting Course Elective	3	Select THREE (3) HOURS from:	
	† Concentration Elective	3	Gen. Ed. 3A (Arts)	3	AEM 407	Fundamentals of Project Management (3) (fall only)
	Free Elective (Co-op recommended)	3	Gen. Ed. 4 (Nat. Sci.)	3	CIS 410	Project Management and Practice (3)
					Select THREE (3) HOURS from:	
	TOTAL	15	TOTAL	15	AEM 352	Robotics and Automated Systems (3)
Senior Year	AEM 407 or CIS 410	3	AEM 408	3	EET 253	Microprocessor Control Systems (3)
	† Concentration Elective	3	NET 499 (ACCT)	3	EET 351	Programmable Logic Controllers (3)
	Gen. Ed. 5A (History)	3	NET 467	0	NET 440	Wired/Wireless Communications (3)
	Gen. Ed. 6 (Diversity)	3	Gen. Ed. 6 (Diversity)	3	Select THREE (3) HOURS from:	
	Free Elective (Co-op recommended)	3	Free Elective (Co-op recommended)	3-4	INF 104	Computer Literacy with Software Applications (3)
					TEC 161	Computer Applications in Technology (3)
	TOTAL	15	TOTAL	12-13	TECH SYSTEMS CONCENTRATION REQUIREMENTS (24)	
TOTAL HOURS TO DEGREE COMPLETION				120	† TWENTY-FOUR (24) HOURS of course work in computer systems, electricity and electronics, and networking related technical electives as approved by major adviser. (This concentration is recommended for transfer students).	
					SUPPORTING COURSE REQUIREMENTS (6-7)	
					° ECO 120	Economic Reasoning and Issues (3)
					° MAT 112A <i>and</i> 112B	Algebra: Polynomials (1.5) Algebra: Functions and Matrices (1.5)
					° PHY 101	Conceptual Physics (3)
					STA 215 <i>or</i> 270	Introduction to Statistical Reasoning (3) Applied Statistics (4)
					‡ PLUS THREE (3) HOURS of AAC, AEM, CCT, CIS, FIN, GBU, MGT, MKT, or RMI upper division electives as approved by major adviser (supporting course elective)	
					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 topic.	
					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.	

* **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. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g., 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.)

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