

CURRICULUM GUIDE
Computer Science, B.S. (Computer Technology Concentration)
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	
Freshman Year	SCO 100I	1	CSC 191	3
	CSC 185	3	CSC 195	3
	CSC 190	3	⁶ MAT 234 <i>or</i> 211 (fulfills Gen. Ed. 2)	3-4
	Gen. Ed. 1A (ENG 101)	3	NET 302	3
	Gen. Ed. 3A (Arts)	3	Gen. Ed. 1B (ENG 102)	3
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3		
	TOTAL	16	TOTAL	15-16
Sophomore Year	CSC 310	3	CSC 340	3
	CSC 313	3	NET 343	3
	EET 252	3	Gen. Ed. 1C (Oral Comm.)	3
	NET 303	3	Gen. Ed. 3B (Humanities)	3
	Gen. Ed. 4 (Nat. Sci.)	3	Free Elective	2-3
	TOTAL	15	TOTAL	14-15
Junior Year	CSC 308	3	CSC 360	3
	CSC 338	3	NET 344 <i>or</i> 395	3
	NET 354	3	Gen. Ed. 4 (Nat. Sci.)	3
	Gen. Ed. 5A (History)	3	Gen. Ed. 6 (Diversity)	3
	Free Elective	3	Free Elective	3
	TOTAL	15	TOTAL	15
Senior Year	CSC 330 <i>or</i> 544	3	CSC 460	3
	CSC 349	3	CSC 499	1
	CSC 440 (ACCT)	3	NET 403	3
	CSC 494, 495 <i>or</i> 496	1	CSC 545	3
	NET 454	3	† CSC Restricted Elective	3
	Gen. Ed. 6 (Diversity)	3		
	TOTAL	16	TOTAL	13
TOTAL HOURS TO DEGREE COMPLETION		120		

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
SCO 100I	Student Success Seminar for Computer Science (1)
CORE COURSE REQUIREMENTS (28)	
CSC 185	Intro to computer Concepts (3)
CSC 190	Object-Oriented Programming I (3)
CSC 191	Object-Oriented Programming II (3)
CSC 195	Intro to Discrete Structures (3)
CSC 308	Mobile App Dev for iOS (3)
CSC 310	Data Structures (3)
CSC 313	Database Systems (3)
CSC 338	Fundamentals of Cybersecurity (3)
CSC 340	Ethics & Software Engineering (3)
CSC 499	Computer Science Career Preparation (1)
COMPUTER TECHNOLOGY CONCENTRATION REQUIREMENTS (22)	
CSC 360	Computer Org. & Architecture (3)
CSC 440	Applied Software Engineering (3)
CSC 460	Computer Net. and Sys. Admin. (3)
CSC 545	Theory of Database Systems (3)
CSC 349	Applied Learning in Comp. Sci. (minimum of 3 hours) (.5-8)
CSC 330 <i>or</i> CSC 544	System Environments and Networks (3) Database Admin and Security (3)
PLUS ONE (1) HOUR selected from:	
CSC 494	Innovative Problem Solving (1-3)
CSC 495	Independent Work (1-3)
CSC 496	Senior Seminar (1)
† PLUS THREE (3) HOURS selected from CSC courses 300-level or above EXCLUDING CSC 349.	
COMPUTER TECHNOLOGY CONCENTRATION SUPPORTING COURSE REQUIREMENTS (24-25)	
EET 252	Digital Electronics (3)
*NET 302	PC Troubleshooting & Construction (3)
*NET 303	LANs & PC Communications (3)
*NET 343	Network Switches & Routers (3)
*NET 344 <i>or</i> NET 395	Adv. Network Switches & Routers (3) Special Topics in NET (2-3)
*NET 354	Microcomputer & Net. Security (3)
*NET 403	Adv. LANs & PC Communication (3)
*NET 454	Wireless/WAN Security (3)
⁶ MAT 234 <i>or</i> ⁶ MAT 211	Calculus I (4) Applied Calculus (3)
FREE ELECTIVES (8-9)	

⁶ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CSC and INF courses. CIS 375, CSC 104, 212, MAT 114, 120, or 122; NET 303, 343 and/or TEC 161. See University Catalog for details.

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. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Computer Science majors will fulfill ACCT with CSC 349, 440, 491, 549, or 495 with a program-approved topic. (Credit hours are incorporated into program requirements.)