

CURRICULUM GUIDE
Digital Forensics and Cybersecurity, B.S.
2021-2022

Website: www.csit.eku.edu
 Email Contact: kuangnan.chang@eku.edu

Department of Computer Science and Information Technology
 521 Lancaster Ave.
 417 Wallace Bldg.
 Richmond, KY 40475
 859-622-2398

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 100I	1	† ⁶ BIO 111, CHE 111/111L <i>or</i>			
	⁶ CMS 210 (<i>fulfills Gen. Ed. 1C</i>)	3	PHY 201 (<i>fulfills Gen. Ed. 4</i>)	4-5		
	CSC 189 <i>or</i> 190	3	CSC 210	3		
	Gen. Ed. 1A (<i>ENG 101</i>)	3	⁶ MAT 234 (<i>fulfills Gen. Ed. 2</i>)	4		
	Gen. Ed. 3A (<i>Arts</i>)	3	Gen Ed. 1B (<i>ENG 102</i>)	3		
	Gen. Ed. 5B (<i>Soc. & Behav. Sci.</i>)	3				
	TOTAL	16	TOTAL	14-15		
Sophomore Year	CSC 313	3	CSC 308	3		
	CSC 360	3	CSC 332	3		
	INF 318	3	FOR 301	3		
	INF 321	3	INF 322	3		
	Supporting Course Restricted Elective A	3	STA 270	4		
	TOTAL	15	TOTAL	16		
Junior Year	⁶ BIO 111, CHE 111/111L <i>or</i>		CSC 536	3		
	PHY 201 (<i>fulfills Gen. Ed. 4</i>)	4-5	CSC 537	3		
	CSC 400	3	CSC 548	3		
	CSC 410	3	‡Core Course Elective (<i>class 2</i>)	3		
	FOR 401	3	Supporting Course Restricted Elective A	3		
	‡Core Course Elective (<i>class 1</i>)	3				
	TOTAL	16-17	TOTAL	15		
Senior Year	CSC 547	3	CSC 349 <i>or</i> INF 495	3		
	CSC 549 (<i>ACCT</i>)	3	Supporting Course Restricted Elective B	3		
	FOR 465W	3	Gen. Ed. 5A (<i>History</i>)	3		
	Gen. Ed. 3B (<i>Humanities</i>)	3	Gen. Ed. 6 (<i>Diversity</i>)	3		
	Gen. Ed. 6 (<i>Diversity</i>)	3	♣ Free Elective	0-1		
	TOTAL	15	TOTAL	12-13		
TOTAL HOURS TO DEGREE COMPLETION					120	

* **Prerequisite:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CSC courses. CIS 375; CSC 321; ENG 102, 105B, and/or HON 102; FOR 301, FOR 411(C) and/or 411L(C); INF 104; NET 303 and/or 354; PLS 216; TEC 161. See University catalog for details.

♣ Due to variable course hour choices in the supporting course requirements, marked free electives may also be variable. Consult with your advisor to ensure you have a minimum of 12 hours per semester to maintain full-time standing and 120 total Credit hours for graduation.

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
SCO 100I	Student Success Seminar for Computer Science (1)
CORE COURSE REQUIREMENTS (57)	
CSC 189 <i>or</i> CSC 190	Computing Concepts & Programming (3)
CSC 210	Object-Oriented Programming I (3)
CSC 308	Data Structure & Programming (3)
CSC 313	Mobile App. Development for iOS (3)
CSC 332	Database Systems (3)
CSC 360	Digital Storage Forensics (3)
CSC 400	Computer Org & Architecture (3)
CSC 410	Operating Systems (3)
CSC 536	Cyber Networking & Security (3)
CSC 537	Incident Response I (3)
CSC 547	Incident Response II (3)
CSC 548	Network Forensics & Investigation (3)
CSC 549	Personal Electronic Device Forensics (3)
*INF 318	Computer Forensics Capstone (3)
*INF 321	Mobile Device Security and Privacy (3)
*INF 322	Computer Forensics I (3)
	Computer Forensics II (3)
PLUS THREE (3) HOURS selected from:	
CSC 349	Applied Learning in Computer Science (1-3)
*INF 495	Independent Work (1-3)
‡PLUS TWO (2) ADDITIONAL COURSES selected from (core elective):	
CSC 520	Multimedia Systems and Forensics (3)
CSC 539	MAC Forensics (3)
CSC 542	Internet Forensics (3)
CSC 543	Windows Forensics (3)
CSC 544	Database Administration and Security (3)
DIGITAL FORENSICS & CYBERSECURITY CONCENTRATION SUPPORTING COURSE REQUIREMENTS (25-26)	
⁶ CMS 210	Public Speaking (3)
FOR 301	Introduction to Forensic Science (3)
*FOR 401	Forensic Professional Practice (3)
*FOR 465	Expert Witness Testimony (3)
⁶ MAT 234	Calculus I (4)
STA 270	Applied Statistics I (4)
†PLUS TWO (2) COURSES selected from the following physical science courses:	
⁶ BIO 111	Cell and Molecular Biology (4)
⁶ CHE 111 <i>and</i>	General Chemistry I (3)
⁶ CHE 111L	General Chemistry Lab I (1)
⁶ PHY 201	University Physics (5)
Bracketed items must be taken concurrently	
PLUS TWO (2) COURSES Selected from the following (restricted elective A):	
CRJ 101	Introduction to Criminal Justice (3)
PLS 216	Criminal Law (3)
PLS 316	Criminal Evidence (3)
*PLS 416	Criminal Procedure (3)
PLUS ONE (1) COURSE selected from the following (restricted elective B):	
CIS 320	Forensic Computing: Investigation (3)
CIS 325	Forensic Computing: Acquisitions (3)
HLS 400	Evaluation of the U.S. Intelligence Community (3)
HLS 401	Intelligence Process (3)
HLS 402	Counterintelligence (3)
HLS 403	Intelligence Analysis (3)
*NET 303	LANs & PC Communications (3)
*NET 354	Microcomputer & Network Security (3)
NET 454	Wireless/WAN Security (3)
FREE ELECTIVES (0-1)	

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

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.)