

# CURRICULUM GUIDE

## Digital Forensics and Cybersecurity, B.S.

2023 - 2024

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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	
<b>Freshman Year</b>	SCO 100i	1	CSC 210	3
	CSC 189 or 190	3	<sup>G*</sup> MAT 234 or 234H	4
	Gen. Ed 1A (ENG. 101)	3	(fulfills Gen. Ed 2)	
	Gen. Ed 3A (Arts)	3	Gen. Ed 1B (ENG 102)	3
	Gen. Ed 5B (Soc. & Behav. Sci)	3	<sup>G†</sup> Physical Science	4-5
	<sup>G</sup> CMS 210 (fulfills Gen. Ed 1C)	3	Elective	
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>14-15</b>
<b>Sophomore Year</b>	INF 321	3	CSC 332	3
	INF 318	3	CSC 308 or 309	3
	CSC 338	3	FOR 301	3
	CSC 360	3	INF 322	3
	<sup>G†</sup> Physical Science	4-5	STA 270	4
	Elective			
	<b>TOTAL</b>	<b>16-17</b>	<b>TOTAL</b>	<b>16</b>
<b>Junior Year</b>	CSC 313	3	CSC 536	3
	CSC 400	3	CSC 537	3
	CSC 410	3	CSC 548	3
	INF518	3	CSC 549	3
	<sup>†</sup> Core Course Elective	3	<sup>¥</sup> Supporting Course	
			Restricted Elective	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>Senior Year</b>	CSC 547	3	INF 495 or CSC 349	3
	FOR 465W	3	<sup>£</sup> Supporting Course	3
	<sup>†</sup> Core Course Elective	3	Restricted Elective	
	Gen. Ed 3B (Humanity)	3	Gen. Ed. 5B (History)	3
	Gen. Ed 6 (Diversity)	3	Gen. Ed 6 (Diversity)	3
			<sup>*</sup> Free elective	0-2
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>12-14</b>
<b>TOTAL TO DEGREE COMPLETION</b>				<b>120</b>

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

<sup>\*</sup> PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division CSC and INF courses. CIS 212 and/or 240; CSC 104; MAT 109 and/or 122; NET 303; and PLS 216. See University catalog for details.

<sup>\*</sup> Due to variable course hour choices in the concentration 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.

**Upper division courses** (All students are required to have a minimum of 42 hrs. upper division 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:** Digital Forensics and Cybersecurity majors will fulfill ACCT with CSC 349, 549, or INF 495 with a program-approved topic. (Credit hours are incorporated into program requirements.)

Course Number	Course Name
<b>GENERAL EDUCATION &amp; UNIVERSITY REQUIREMENTS</b>	
SCO 100i	Student Success Seminar for Computer Science (1)
<b>CORE COURSE REQUIREMENTS</b>	
CSC 189	Computing Concepts & Programming (3)
Or 190	
CSC 210	Data structure & programming (3)
CSC 308	Mobile App. Develop. for iOS (3)
CSC 313	Database Systems (3)
CSC 332	Digital Storage Forensics (3)
CSC 338	Fundamentals of Cybersecurity (3)
CSC 360	Computer Org & Architecture (3)
CSC 400	Operating Systems (3)
CSC 410	Cyber Networking & Security (3)
CSC 536	Incident Response I (3)
CSC 537	Incident Response II (3)
CSC 547	Network Forensics & Investigation (3)
CSC 548	Personal Electronic Device Forensics (3)
CSC 549	Computer Forensics Capstone (3)
INF 318	Mobile Device Security and Privacy (3)
INF 321	Computer Forensics I (3)
INF 322	Computer Forensics II (3)
INF 518	Principles of Cybersecurity (3)
<b>PLUS THREE (3) HOURS selected from</b>	
INF 495	Independent Work (1-3)
CSC 349	Applied Learning in Computer Science (1-3)
<b>† PLUS TWO (2) additional courses selected from the following:</b>	
CSC 330	System Environments & Networks
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)
<b>SUPPORTING COURSE REQUIREMENTS</b>	
<sup>G</sup> CMS 210	Public Speaking (3)
FOR 301	Intro. to Forensic Science (3)
FOR 465	Expert Witness Testimony (3)
<sup>*</sup> STA 270	Applied Statistics I (4)
<sup>G*</sup> MAT 234 or 234H	Calculus I or Honors Calculus I (4)
<b>† PLUS TWO (2) courses selected from the following physical science courses:</b>	
<sup>G</sup> BIO 111	Cell and Molecular Biology (4)
<sup>G</sup> CHE 111 and CHE 111L	General Chemistry I and General Chemistry Lab I (4)
<sup>G</sup> PHY 201	University Physics (5)
<b>¥ PLUS two (2) courses selected from the following (restricted elective):</b>	
CRJ 101	Introduction to Criminal Justice (3)
PLS 216	Criminal Law (3)
PLS 316	Criminal Evidence (3)
<sup>*</sup> PLS 416	Criminal Procedure(3)
HLS 400	Eval. of the U.S. Intelligence Community (3)
HLS 401	Intelligence Process (3)
HLS 402	Counterintelligence (3)
HLS 403	Intelligence Analysis (3)
<sup>*</sup> NET 303	LANs & PC Communications (3)
<sup>*</sup> NET 354	Microcomputer & Network Security (3)
<sup>*</sup> NET 454	Wireless/Wan Security (3)
<b>FREE ELECTIVE (0-1)</b>	