

# DIGITAL FORENSICS AND CYBERSECURITY, BACHELOR OF SCIENCE (B.S.)

## Program Mission

The mission of the Bachelor of Science program in Digital Forensics and Cybersecurity is to provide students with an education that will prepare them to build a solid foundation of knowledge and skills in digital forensics and cybersecurity and develop a career in the related professional fields.

1. Our graduates will be productive professionals in the digital forensics and cybersecurity fields.
2. Our graduates will develop professionally through continued formal education and/or professional activities.
3. Our graduates will demonstrate leadership skills at work.
4. Our graduates will contribute to community as digital forensic and cybersecurity professionals.

## Program Requirements

CIP Code: 43.0116

### Summary Checklist for General Education

Code	Title	Hours
<b>Element 1</b>		
A:	Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
B:	Written Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
C:	Oral Communication ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/</a> )	3
<b>Element 2</b>		
	Quantitative Reasoning ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/</a> )	3
<b>Element 3</b>		
A:	Arts ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )	3
B:	Humanities ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/</a> )	3
<b>Element 4</b>		
	Natural Sciences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/</a> )	6
<b>Element 5</b>		
A:	Historical Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )	3
B:	Social Behavioral Science ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/</a> )	3
<b>Element 6</b>		

Diversity of Perspectives Experiences ( <a href="http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/">http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/</a> )	6
---	---

**Total Hours** 36

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

## Major

Code	Title	Hours
<b>University Graduation Requirements</b>		
General Education		36
<i>Student Success Seminar</i>		
Student Success Seminar (waived for transfers with 30+ hrs.)		1
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
<b>Major Requirements</b>		
<i>Core Courses</i>		
CSC 189 or CSC 190	Computing Concepts and Programming Object- Oriented Programming I	3
CSC 210	Data Structures and Programming	3
CSC 313	Database Systems	3
CSC 332	Digital Storage Device Forensics	3
CSC 360	Computer Org & Architecture	3
CSC 400	Operating Systems	3
CSC 410	Cyber Networking and Security	3
CSC 536	Incident Response I	3
CSC 537	Incident Response II	3
CSC 547	Network Forensic and Investigation	3
CSC 548	Personal Electronic Device Forensics	3
CSC 549	Computer Forensics Capstone	3
CSC 308 or CSC 309	Mobile App Development for Apple iOS Mobile App Dev for Android	3
INF 318	Mobile Device Security & Privacy	3
INF 321	Computer Forensics	3
INF 322	Computer Forensics II	3
INF 518	Principles of Cybersecurity	3
Choose from two of the following:		6
CSC 520	Multimedia System and Forensics	
CSC 539	MAC Forensics	
CSC 542	Internet Forensics	
CSC 543	Windows Forensics	
CSC 544	Database Admin and Security	
CSC 349 or CSC 495	Applied Learning in Computer Science Independent Work	3
<i>Supporting Course Requirements</i>		
CMS 210	Public Speaking (Element 1) <sup>G</sup>	
FOR 301	Introduction to Forensic Science	3
FOR 401	Forensic Professional Practice	1
FOR 465W	Expert Witness Testimony	3
STA 270	Applied Statistics	4
MAT 234	Calculus I (Element 2) <sup>G</sup>	
Choose from two of the following:		8-9

BIO 111	Cell and Molecular Biology (Element 4) <sup>G</sup>	
CHE 111 & 111L	General Chemistry and General Chemistry Lab I (Element 4) <sup>G</sup>	
PHY 201	University Physics I (Element 4) <sup>G</sup>	
Choose from one of the following:		3
CRJ 101	Introduction to Criminal Justice	
PLS 216	Criminal Law	
PLS 316	Criminal Evidence	
PLS 416	Criminal Procedure	
Choose from one of the following:		3
CIS 320	Forensic Computing: Investigations	
CIS 325	Forensic Computing: Acquisitions	
HLS 400	Evolution of the U.S. Intelligence Community	
HLS 401	Intelligence Process	
HLS 402	Counterintelligence	
HLS 403	Intelligence Analysis	
NET 303	LANs & PC Communications	
NET 354	Microcomputer & Network Security	
NET 454	Wireless/WAN Security	
<i>Free Electives</i>		
Choose from 0-1 hour of free electives		0-1
<b>Total Hours</b>		<b>120</b>

**G**

Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.