# **Digital Forensics**



## What is digital forensics?

Digital forensics is the process of acquiring, preserving, and analyzing electronic evidence in a way that is legally admissible in court. Digital forensic investigators will analyze information found on computers, laptops, tablets, cellphones, USB drives, printers, fitness devices, cars, GPS devices, medical devices, and networks. Digital forensics is also referred to as system forensics, computer forensics, computer forensics analysis, electronic discovery, data recovery, and computer analysis.

# What do digital forensics specialists do?

Digital forensics specialists perform multiple roles across many different fields and platforms. They work in law enforcement investigating digital crimes; across many different fields and platforms. They also work in e-discovery acquiring, preparing, and presenting digital evidence in court; in the private sector working on intellectual property disputes, fraud cases, divorce, and other cases where digital media is involved; or recovering deleted or damaged data. Digital forensics specialist should possess strong analytical and investigative skills in order to uncover evidence on digital devices, such as cellphones, tablets, laptops, computers, GPS devices, personal fitness tracking devices, and cars. A forensic specialist will be able to locate deleted, encrypted, and hidden data in order to reconstruct past events or activities.

# What is the employment outlook for this career?

The increased use of digital technology means that more and more organizations are becoming victims of cybercrime leading to increased demand for professionals with digital investigative skills. The US Bureau of Labor Statistics categorizes the work of computer forensic examiners under the information security analyst category. According to the U.S. Bureau of Labor Statistics, employment of information security analysts is expected to increase by 32 percent from 2018 to 2028, much faster than the average for all occupations. Demand for information security analysts is expected to be



very high as these analysts will be needed to come up with innovative solutions to prevent hackers from stealing critical information or

creating havoc on computer networks and to

investigate cybercrime. (source: www.bls.gov/ooh)

#### Why should students choose HCC?

HCC has a state of the art digital forensics lab featuring uFRED forensics server and EnCase forensic software allowing students to gain hands-on experience on how to perform digital forensic investigations.

HCC students participate in digital forensics and cybersecurity competitions allowing them to hone and validate their skills.

- In 2015, HCC was one of the first community colleges in the nation to be named as a Center of Academic Excellence for Two-Year Education in information assurance (CAE2Y) for the second time by the National Security Agency.
- HCC digital forensics classes are taught in a five-story STEM (Science, Technology, Engineering, and Math) Building that features a state-of-the-art cybersecurity penetration testing and digital forensics lab.

#### **PROGRAM OPTIONS**

A.A.S. Degree, Digital Forensics Concentration

#### **CAREER OUTLOOK**

**MEDIAN SALARY** 

\$99K

for information security analysts

**EMPLOYMENT** 



131,000 jobs in the U.S. 31% growth in the next ten years

Job prospects will be best for college graduates who possess the latest technological skills, particularly graduates who have supplemented their formal education with relevant work experience.

(source: www.bls.gov/ooh)

- HCC has aligned many of its courses with Cyberwatch, a consortium of over 126 colleges, businesses, and government agencies. This alignment allows students to transfer seamlessly from HCC to a four-year college to complete their bachelor's degrees.
- Upon program completion, students will be prepared for several industry standard certification exams including:
  - CompTIA Network +, Security +
  - EC Council Security 5, Network 5, E|NSA, C |EH (Certified Ethical Hacker)
  - The International Society of Forensic Computer Examiners Certified Computer Examiner (CCE)

### Information Systems Technology, A.A.S.

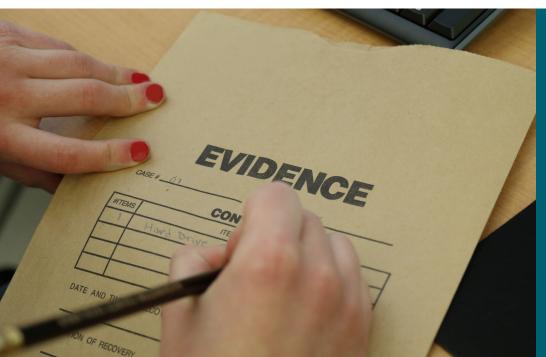
# **Digital Forensics Option**

The digital forensics concentration is designed to provide an introduction to the forensic investigation aspect of computers and related electronic data systems. The program includes an overview of forensic evidence collection methods, investigative techniques, and procedures suitable for persons exploring the digital forensics field as a career option. Those students interested in pursuing a career in a highly-specialized field can transfer credits to four-year colleges offering degree programs in digital/computer forensics. Students can also use the digital forensics option as a second degree to enhance career advancement.

General Edu	18-19 credits	
	ities the approved cation course list	3
Select from	Social Sciences the approved cation course list	3
Select from	nysical Science the approved cation course list	3-4
	the approved cation course list	3
English ENG 112	Technical Writing I	3
<b>Mathematic</b> MAT 101	s College Algebra	3

Prog	ram	Requirements 30 credits	
CSC	109	UNIX/Linux Operating Systems 3	
CYB	101	Introduction to Cybersecurity 3	
CYB	131	Scripting Fundamentals	
CYB	210	Ethics in the Information Age3	
CYB	240	Ethical Hacking Fundamentals3	
IST	108	Microsoft Operating Systems3	
IST	154	Networking Basics	
IST	166	Computer Forensics I —	
		Principles and Practices3	
IST	266	Computer Forensics II —	
		Investigations Practices 3	
IST	276	Network Forensics 3	
		electives II-I2 credits	
		he following list:	
ADJ	101	Introduction to Criminal Justice 3	
BTC	101	Introduction to Biotechnology	
CYB	225	Tactical Perimeter Defense	
CYB	246	Introduction to Cloud Computing 3	
IST	107	Database Management	
IST	150	PC Tech: Repair and Troubleshooting . 3	
IST IST	151 160	PC Tech: Operating Systems	
IST	173	Introduction to Security Fundamentals 3  Database Fundamentals	
IST IST	261 269	Server Management I	
		Internship I	
Degr	ee K	equirement60	

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# **Contact Information:**

Harald Jazdziewski Instructor, Cybersecurity 240-500-2515

hjazdziewski@hagerstowncc.edu

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