Bern University of Applied Sciences

Individual Training Courses

Digital Forensics & Cyber Investigation Professional

The Digital Forensics & Cyber Investigation (DFCI) continuing education program at BFH was created to address increasing education demand for skilled digital forensic and cyber investigators. All taught courses of the DFCI are also offered individually for professionals looking for specific specialized training.

Course topics see back page

Offer

The DFCI courses:
- offer a choice of Digital Forensics and Cyber Investigation modules.
- are held as one-week full-time intensive courses, making it easier to attend and faster to complete.
- are taught in English by internationally recognised experts in the field.

Topics

The programme includes courses covering:
- traditional digital forensics: storage, operating systems, applications, malware analysis, networks, cloud, social media, encryption;
- hardware forensics: mobile devices, IoT systems, automobiles, drones, industrial control systems, medical devices, chip-off and JTAG;
- cyber investigations: cybercrime reconstruction, attribution, intelligence, botnets, cyberfraud, digital payments and virtual currencies, data theft, data analytics.

Target Audience

The DFCI courses are designed for two groups of professionals:
- Experienced forensic investigators who want to increase their technical skills in digital forensics and cyber investigations.
- Experienced engineers and technicians who want to transition into the field of digital forensics and cyber investigations.

Factsheet

Sessions
Check our website for the current course dates

Duration
One Week (per course)

Costs
CHF 2 500 (per course)

Degree/Certificate
Each course offers you the possibility to pass a final exam that earns you 3 ECTS, or 40 CPE credits, for subsequent CAS or MAS degrees in Digital Forensics & Cyber Investigation.

Location
Biel, Aarbergstrasse 46 (Switzerland Innovation Park Biel/Bienne) partly onsite – partly hybrid

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▶ **School of Engineering and Computer Science**

The Individual courses

Digital Forensics & Cyber Investigation Professional

Fundamentals

Digital Forensics Fundamentals
Introduction to digital forensic processes, methods, and investigations

Cyber Investigation Fundamentals
Introduction to basic Internet/cyber investigations and open source intelligence

Cybercrime Overview
Overview of cybercrime, cyber facilitated crime, victimology, crime actors, and crime fighters

Digital Forensic Acquisition
Digital forensic acquisition, evidence management, and digital chain-of-custody

Advanced

File System Analysis
Advanced storage and filesystem forensics, analysis of partitions, sector/blocks, data carving

Operating System Artifact Analysis
Forensic analysis of Operating System specific artifacts (Windows, Mac, and Linux)

Application and Media File Analysis
Analysis of server and client applications, and meta-data within application files

Memory Forensics
Dumping and analysing memory images, extracting data about processes, network connections, and more

Specialist I

Network Forensics
Advanced network forensics, packet capture and analysis, decoding and reconstructing protocol layers

Malware Forensics
Forensic analysis of Malware and malicious code, static and dynamic binary analysis techniques

Data Analytics and Visualization
Log analysis and corelation, event reconstruction using timelines, using big data

E-Discovery
Electronic Discovery processes in corporate legal and litigation investigations, Legal IT infrastructures

Specialist II

Mobile Device Forensics
Acquisition and analysis of mobile devices such as smart phones and tablets, IOS and Android

Fintech Forensics
Investigative techniques related to financial technologies, cyber fraud, and virtual currencies

Forensic Intelligence
Open source intelligence gathering for investigations, reliability, social media investigations

Hardware Forensics
Forensic analysis of hardware and IoT devices, electronics basics, extracting data from devices

Cloud and VM Forensics
Forensic acquisition and investigations related to cloud and virtual machine technologies