Short Advanced Studies (SAS)[1]

E-Discovery

The digital transformation of society is creating new challenges and new opportunities, both for criminals and for criminal investigators. Today digital forensics and cyber investigators must collect and analyze digital evidence from a diverse landscape of technically complex sources. Our unique Digital Forensics and Cyber Investigation (DFCI) Short Advanced Study (SAS) programs give you a wide range of practical skills needed for an exciting career combating, analyzing and investigating cyber criminal activity.

The E-Discovery SAS teaches electronic discovery for legal litigation and investigations in civil cases. This includes the Electronic Discovery Reference Model (EDRM), corporate document retention and Legal IT functions, preservation, processing, review, presentation, and more.

[1]Short Advanced Studies (SAS) are short qualifying training courses designed for a specialist audience seeking to face new challenges in direct dialogue with experts (1-9 ECTS).

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1 Portrait

The digital transformation of society is affecting crime, criminals and criminal investigation. New cyber criminal methods using advanced technical tools and exploitation are an opportunity for criminals and a challenge for investigators. Technically complex illegal activities are being sold as services to less skilled criminals, increasing the challenge of fighting cybercrime. On the other hand, criminals face increasing challenges trying to hide and avoid attribution. The large amount of digital traces stored across multiple locations and devices creates an opportunity for criminal forensic investigators.

Crime scenes are also changing. With the growth of cybercrime, crime scenes are becoming virtual, global, and multi-jurisdictional. Investigating a transnational cyber crime scene requires investigative tools to remotely gather information, and also collaboration between entities in both the public and private sectors.

Modern physical crime scenes have a comprehensive array of digital evidence sources. In addition to PCs and notebooks, digital evidence traces can be found in mobiles, IoT devices, automobiles, smart control systems, data stored with cloud providers, social media, and distributed on servers across the Internet. With the increase in digital and online payment systems, financial transactions are also becoming an important digital evidence source, especially in financially motivated crimes like fraud, ransomware, and extortion.

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2 Career opportunities

The DFCI SAS programs prepare students for career opportunities in a variety of organizations who depend on forensic investigation capabilities. For example:

- Law enforcement – Federal agencies, KAPOs
- Military and government – NCSC, CERTs, cyber-troops
- Finance industry – fraud and cybercrime investigation teams
- Insurance industry – cyber insurance claims investigation
- Large enterprises – security and incident response teams
- Consultancy and audit – e-Discovery, accounting, "Big Four"
- IT security service providers and product vendors
- Private boutique digital forensic and investigation firms

3 Target audience

The DFCI SAS programs 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.

4 Education goals

This continuing education program has practical learning objectives. Students completing a DFCI SAS will understand the concepts of modern digital forensics, they will have the knowledge and skills needed to understand cyber criminal activity, conduct cyber investigations, and collect digital forensic evidence.

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5 Requirements

Admission into the DFCI SAS program requires one of the following qualifications:

- a bachelor's degree or equivalent professional education degree in computer science, computer engineering, or related technical field,
- professional experience in digital forensics or IT investigation, and a related industry certification.

If applicant qualifications are unclear or inconclusive, further information or an interview may be requested.

6 Factsheet

Short Advanced Studies (SAS)	Name des SAS
Degree/Certificate	Short Advanced Studies (SAS) E-Discovery
Duration	One week, 5 days
Schedule	See website
Application deadline	Up to 1 month before the course begins
ECTS credits	3 ECTS-Credits
Costs	CHF 2'500.00
Teaching language	English
Location	Biel, Aarbergstrasse 46 / onsite, remote
School	School of Engineering and Computer Science

7 Content + Learning objectives

The E-Discovery SAS teaches electronic discovery for legal litigation and investigations in civil cases. The content includes:

- Introduction to civil investigations and litigation
- Concepts of E-Discovery, client privilege
- Electronic Discovery Reference Model (EDRM)
- Corporate document retention and legal IT
- Electronically stored information (ESI)
- Document/record identification and preservation
- Data pre-processing and processing
- Review, production, and presentation

8 Proof of proficiency

To receive 3 ECTS (European Credit Transfer and Accumulation System) academic credits, students must demonstrate their knowledge by successfully completing assignments, projects, and final exam as required by the lecturer. Students who attend all classes but do not complete the assessment work will receive a certificate of attendance equivalent to 40 CPE (Continuing Professional Education) hours.

9 Lecturers

Name	Organisation	E-mail
Irène Wilson		irene.wilson@bfh.ch

10 Organisation

SAS Supervisor:
Irène Wilson
E-Mail: irene.wilson@bfh.ch

SAS Coordination:
Miriam Patwa
Phone: +41 31 848 58 68
E-mail: miriam.patwa@bfh.ch

Bern University of Applied Sciences
School of Engineering and Computer Science
Continuing Education
Aarbergstrasse 46 (Switzerland Innovation Park Biel/Bienne)
2503 Biel/Bienne

Phone +41 31 848 31 11
E-mail: weiterbildung.ti@bfh.ch

bfh.ch/ti/weiterbildung