

# Master of Science Digital Forensics and Cybersecurity (Revised November 2017)

Program Director: Professor Douglas Salane

The Master of Science in Digital Forensics and Cybersecurity (D4CS) degree program offers a balance of practice and theory through study in computer science, law and criminal justice. The program produces professionals qualified as digital forensic scientists who can apply and sustain their expertise as new technological and societal challenges emerge, who understand the scientific, legal and criminal justice context of high technology crime, and who can effectively communicate their knowledge to others.

## Degree Requirements

Requirements for the degree program consist of 33 total credits.

### Required Courses

<a href="#">CRJ 752/FCM 752</a>	The Law and High Technology Crime	3
<a href="#">FCM 742</a>	Network Security	3
<a href="#">FCM 710</a>	Architecture and Vulnerabilities of Operating Systems	3
<a href="#">FCM 753</a>	Digital Forensic Applications	3
<a href="#">FCM 760</a>	Forensic Management of Digital Evidence	3
	Total Credit Hours:	15

### Forensic and Security Electives

*Select three courses:*

<a href="#">FCM 700</a>	Theoretical Foundations of Computing	3
<a href="#">FCM 705/FOS 705</a>	Mathematical Statistics for Forensic Scientists	3
<a href="#">FCM 740</a>	Data Communications and Forensic Security	3
<a href="#">FCM 745</a>	Network Forensics	3
<a href="#">FCM 741</a>	Applied Cryptography	3
	Total Credit Hours:	9

## **Criminal Justice Electives**

*Select one course:*

<a href="#">CRJ 708</a>	Law, Evidence and Ethics	3
<a href="#">CRJ 727/FCM 727</a>	Cybercriminology	3
<a href="#">CRJ 733</a>	The Constitution and Criminal Justice	3
<a href="#">CRJ 750/PAD 750</a>	Security of Information and Technology	3
<a href="#">CRJ 751</a>	Crime Scene Investigation	3
<a href="#">CRJ 753</a>	Investigating Cybercrime	3
<a href="#">CRJ 755</a>	Writing for Management	3
	Total Credit Hours:	3

## **Graduate Elective**

Select any course in the John Jay College graduate catalog (except [FCM 708](#) or [FCM 709](#)), including the above electives.

Total Credit Hours: 3

## **Capstone Options<sup>1</sup>**

*Select one course:*

Fieldwork: FCM 780 Capstone and Seminar Field work (3 credits)

or

Applied Research Project or Thesis: FCM 791 Forensic Computer Research Practicum (3 credits)

or

Faculty Mentored Research: FCM 798 (3 credits)

Total Credit Hours: 3

Total Credit Hours for D4CS Program: 33

<sup>1</sup>In the revised D4CS program, all students take 33 credits. There is no qualifying examination. The capstone requirement is 3 credits for all students.