DIGITAL FORENSICS TECHNOLOGY (DGFR)

DGFR 100 Introduction to Cyber Forensics (3 Units)
An overview of digital forensics and computer-related issues facing government and businesses. Specific focus on forensic examinations and methodologies used in the field. (Formerly 2235:100)

DGFR 280 Cybercrime (3 Units)
Prerequisite: DGFR 100 or CRJU 100. Examines crime and deviance in cyberspace. Particular focus is on the prevention of computer intrusion in the workplace. (Formerly 2235:280)

DGFR 281 Computer Forensic Methods (3 Units)
Prerequisite: DGFR 100 or DGFR 280. Examination of computer forensic methods employed to identify, collect, recover, authenticate, preserve, analyze, and document electronic evidence for criminal or civil legal purposes. (Formerly 2235:281)

DGFR 282 Digital Forensic Imaging (3 Units)
Prerequisite: DGFR 100 or CRJU 100. This course cover the general principles of photography and practical elements and advanced concepts of forensic photography. (Formerly 2235:282)

DGFR 283 Cyber Warfare (3 Units)
Prerequisite: DGFR 280. Examines the participants, tools and techniques in digital conflicts and explores how to defend against espionage, hactivism, non-state actors and terrorists. (Formerly 2235:283)

DGFR 284 Windows Forensics (3 Units)
Prerequisite: DGFR 281. An examination of the tools, methodology, and advanced digital forensic analysis of the Windows Registry and the Microsoft Windows operating systems. (Formerly 2235:284)

DGFR 381 Computer Forensic Methods II (3 Units)
Prerequisite: DGFR 281. Obtaining and analyzing digital information from computer storage media to determine details of origin and content. (Formerly 2235:381)

DGFR 382 File System Analysis (3 Units)
Prerequisite: DGFR 281. The analysis of volumes, partitions, and data files to understand the design of file systems and data structures. (Formerly 2235:382)

DGFR 383 Ethical Hacking (3 Units)
Prerequisite: DGFR 283 or CISS 201. An examination of the tools, methods, and structured approaches to conducting basic security testing to protect computer networks from attacks. (Formerly 2235:383)

DGFR 440 Intrusion Detection (3 Units)
Prerequisites: DGFR:443 with a grade of C or better and junior or greater standing. This course will introduce students to the various methods used to detect external and internal intrusion of computer systems. (Formerly 2235:440)

DGFR 441 Network Forensics I (3 Units)
Prerequisites: [DGFR 281 or CISS 201] with a grade of C or better and junior or greater standing. This course will provide the student with basic knowledge of surveillance of networking devices, identifying and preventing attacks and incident response. (Formerly 2235:441)

DGFR 442 Wireless Forensics (3 Units)
Prerequisite: DGFR 443 with a grade of C or better and junior or greater standing. The forensic identification and tracking of attacks on wireless networks and mobile communications devices. (Formerly 2235:442)

DGFR 443 Network Forensics II (3 Units)
Prerequisite: DGFR 441 with a grade of C or better or junior or greater standing. Deployment, building and running an NSM operation using open source software and vendor neutral tools with the Linx Operating System (Formerly 2235:443)

DGFR 480 Digital and Scientific Evidence (3 Units)
Prerequisite: CRJU 104. Examination of the role of scientific and digital evidence in the legal system. Courtroom admissibility and presentation rules are covered. (Formerly 2220:480)

DGFR 485 Cyber Forensics Capstone (4 Units)
Prerequisites: Senior standing in the Cyber Forensics program and placement by an advisor. This is the senior capstone course for the Cyber Forensics degree. This course is a culminating experience class in which issues in cyber forensics will be examined, applied, and analyzed into the broader application of societal contexts and issues. (Formerly 2235:485)
Gen Ed: Capstone

DGFR 493 Cyber Forensics Internship (3 Units)
Prerequisites: Junior or greater standing in the Cyber Forensics program and placement by an advisor. This course provides the student with an experience in digital technology in the workplace. Each student is required to meet with an instructor to discuss and examine the workplace experience. (Formerly 2235:493)