



UCF

College of Engineering and Computer Science

Digital Forensics MS

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What is Digital Forensics?

Digital (or computer) forensics: The application of **science** and **engineering** to the **legal** problem of **digital evidence**

- **Digital evidence:** Information of probative value that is stored or transmitted in binary form
- **Probative value:** Evidence which is sufficiently useful to prove something important in a trial



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Digital Forensics Career Opportunities



Computer Forensic Examiner: Conduct examination and analysis of **computers** and **digital media** to develop evidence

Incident Response Examiner: Investigate **network intrusions** and other **cyber security breaches**



Forensic Examiner (eDiscovery): Conduct computer **forensic investigations** and **electronic discovery** requests for legal and corporate clients

Malware Analyst / Reverse Engineering Specialist: Conduct **malicious code** forensic analysis





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UCF MS Degree in Digital Forensics

- Program Website: <http://msdf.ucf.edu>
- Program set up in Fall 2008, was one of the first Digital Forensics MS program in US
- Has both in-campus MS program, and pure online MS program
 - **GRE is NOT required**
- High reputation in US Computer Forensics education:
 - No. 1 pick in the "Top 15 Online Master's in Computer Forensics Programs in 2020" by intelligent.com/
 - bestcolleges.com/: Ranked #1 as "Best Online Master's in Computer Forensics Programs" for both 2017 and 2018, and #2 in 2019.
 - One of the "Most Affordable Online Programs in Cyber Security in 2018" by cybersecuritydegrees.com/
 - Ranked #9 in '22 Best Schools with online computer forensics programs' by Cyberdegrees.org



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UCF MS Degree in Digital Forensics

- Has graduated more than **469** students by Fall 2022
- Has **132** active students in this MS program in Fall 2022
 - About 85% students are in the pure online MS program
- Required courses (12 hours):
 - **CGS 5131**, Computer Forensics I (Fall, Online & Live)
 - **CNT 6418**, Computer Forensics II (Spring, Online & Live)
 - **CHS 5504**, Topics in Forensic Science (Fall, Online)
 - **CIS 6207**, The Practice of Digital Forensics (Fall, Online)



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Elective Courses

- **Group A:** (computing and technology, choose two courses, 6 hours)
 - **CAP 6133**, Advanced Topics in Computer Security and Computer Forensics (occasion)
 - **CNT 6519**, Wireless Security and Forensics **(Fall, Online)**
 - **CAP 6135**, Malware and Software Vulnerability Analysis **(Spring, Online & Live)**
 - **CIS 6395** Incident Response Technologies **(Fall, Online & Live)**
 - **CIS 6386** OS & File System Forensics **(Spring, Online)**
 - **CNT5410L** - Cyber Operations Lab **(Spring, Online & Live)**
 - **IDC5602** - Cybersecurity: A Multidisciplinary Approach **(Fall, Online & Live)**
 - **IDC6600** - Emerging Cyber Issues **(Summer, Online & Live)**
 - **IDC6601** - Behavioral Aspects of Cybersecurity **(Summer, Online & Live)**
- **Group B:** (criminal justice, choose one course, 3 hours)
 - **CCJ 6074**, Investigative and Intelligence Analysis, Theory and Methods **(Spring, Online)**
 - **CCJ 6706**, Quantitative Methods and Computer Utilization in Criminal Justice or ESI 5219 Engineering Statistics **(Fall, Online)**
 - **CJE 6688**, Cybercrime and Criminal Justice **(Fall, Online)**
 - **CIS 6206**, Electronic Discovery for Digital Forensics Professionals **(Fall, Online)**
- **Group C:** (forensic science/legal studies, choose one course, 3 hours)
 - **CHS 5596**, Forensic Expert in the Courtroom **(Spring, Online)**
 - **CHS 5518**, Forensic Examination of Digital Evidence **(Summer, Online)**
 - **PLA 5587**, Current Issues in Cyberlaw (occasion)
 - **CIS 6206**, Electronic Discovery for Digital Forensics Professionals **(Fall, Online)**