Class Format
Hybrid: Online with select in-person evening classes

Application Deadlines
Rolling

Contact
graduate_studies@salve.edu

Enhance Your Digital Skills

Our Certificate in Digital Forensics introduces students to the fundamental principles and techniques of computer network architecture, proper evidence storage and collection, and federal rules and criminal codes.

The study of digital forensics encompasses an array of skills including acquiring, extracting, and analyzing data that is often useful for criminal investigation and civil litigation cases. In addition to criminal and civil investigations, it also plays a major role in intelligence and counterterrorism matters. Upon completion, students will understand how foreign, state-sponsored threat actors target certain institutions and companies and how to thwart those threats.

The Certificate of Graduate Studies in Digital Forensics will:

1. Acquaint students with computer network architecture, proper evidence collection and storage, and federal rules and criminal codes;

2. Provide an understanding of how foreign state sponsored threat actors target certain institutions and companies;

3. Introduce students to network traffic analysis, web log analysis, malware reverse engineering, and cyber infrastructure analysis;

4. Instruct each student on how to navigate networks, servers, and mass data as well as how to utilize common digital forensic tools.

Our four-course certificate program is designed for students who hold either a bachelor's or master's degree and are looking for continued professional development in topics that are crucial in today's environment. Students in good academic standing who would like to continue their studies may apply to the M.S. in Administration of Justice and Homeland Security program and carry the credits forward.

Certificate programs are completed online; select courses may also be offered in-person on our Newport campus. Online courses are offered in compressed, seven-week sessions.

Certificate of Graduate Studies in Digital Forensics
(Four courses, 12 credits)

Admissions Requirements
The Certificate of Graduate Studies (CGS) is designed for students who hold a baccalaureate or master's degree and wish to pursue graduate work to meet personal or professional goals.

How to Get Started
Students apply using a streamlined certificate program application. There is no fee to apply. You must submit the following to be considered:
- Completed certificate program application
- Official transcripts from each previous college/university attended
- Resume

The application is accessed online at **admissions.salve.edu/apply.**

Each successful class completion will earn graduate credit. Should the student wish to continue on to a master's program, they should contact the Office of Graduate Admissions. Credits earned in the certificate program may be applied to the master's degree consistent with University policy.

About Salve Regina University
Salve Regina is an independent, coeducational institution located in Newport, RI. Since our founding by the Sisters of Mercy in 1947, we have grown to a community of more than 2,700 undergraduate and graduate students who proudly carry forward a mission of responsible citizenship and public service in their personal and professional lives. Salve Regina is fully accredited by the New England Commission of Higher Education (NECHE).

Required courses:

ADJ526: Principles of Digital Forensics   3 credits
The essentials covered in this class include computer system storage fundamentals, operating systems and data transmission, computer network architecture, digital forensic best practices, proper evidence collection and storage, and federal rules and criminal codes.

ADJ529: Advanced Digital Forensics   3 credits
The student is introduced to forensic software such as FTK, Encase and a suite of free open-source software such as The Sleuth Kit, Autopsy, SANS SIFT and Kali. The student will also be introduced to forensic hardware and learn how to properly image computer media in a forensically sound manner.

Students must also complete two of the courses from the list below:

ADJ537: Network Forensics   3 credits
This course focuses on proactive and reactive digital security incident management. Students will learn how data moves throughout a network and where digital evidence is most likely found on network hardware and software.

ADJ545: Mobile Forensics   3 credits
The Mobile Forensics course includes the collection, preservation and analysis of data from mobile devices. The course will expand on the principles of digital forensics, teaching students how to review data stored on mobile devices including phone calls, text, internet history, photos and videos. See the online course schedule for lab details.

ADJ546: Insider Threat   3 credits
This course is designed to assist management, human services, and information technology professionals with the prevention, detection, and mitigation of risks associated with insider threats. Instructional methods include readings, written assignments, online discussion forums, and virtual computer lab assignments.

ADJ547: Malware Basics   3 credits
Students in this highly technical course will learn the basics of malware code. This includes how malicious code is created and how it behaves on a host/network. Students will make use of a virtual machine environment in order to safely run and reverse engineer real world samples of malicious code, conduct static and dynamic code analysis, and incorporate their findings and analysis into technical forensic reports.

ADJ581: Special Topics   3 credits
This course provides an opportunity to explore current topics not covered in regularly offered courses. See the online course schedule for current offerings.

Our courses are taught by seasoned professionals who are experts in their field. Instructors work one-on-one with students to meet their individual needs while also serving as career-focused mentors. Our faculty also assist students in networking and career opportunities.