Digital Forensics
Graduate Certificate

Effective January 8, 2018
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Graduate Certificate

Capella University has been designated by the National Security Agency (NSA) and the Department of Homeland Security (DHS) as a National Center of Academic Excellence in Information Assurance/Cyber Defense (CAE IA/CD) for academic years 2014-2021.

The Digital Forensics graduate certificate prepares information security professionals for successful computer forensics activities and the legal challenges associated with conducting computer forensics investigations. Learners examine the ways data can be hidden on a computer, evaluate computer forensics investigation tools and procedures, apply methods of handling and transporting uncovered data, and create the reports necessary for presentation of digital forensic evidence at trial.

A University on Top of IT Industry Trends
With the emergence of globalization and outsourcing, the field of information technology poses new challenges to IT professionals who want to advance in their careers. Previously it was enough simply to stay focused on “hard” skills through IT certifications and training. Today, organizations are looking for IT professionals who also understand the business needs of the enterprise, the creative possibilities of technology, and how to integrate that technology into complex enterprise-wide systems. Capella is aware of these trends and continues to adjust its curricula to keep up with the needs of this rapidly changing, dynamic field.

Certificates are an ideal way to update existing knowledge, gain new knowledge, and study at the graduate level. Coursework completed in a certificate program may be applied toward a graduate degree program at Capella.

A Digital Forensics graduate certificate provides you with foundational knowledge required to sit for the Certified Cyber Forensics Professional (CCFP) and Certified Hacking Forensics Investigator (CHFI) exams.

This graduate certificate is offered in the GuidedPath delivery model.

This guide is intended to provide an overview of the program and is subject to change. Your enrollment counselor can provide updates, details, and Capella’s official University Catalog that specifies your program requirements.
Curriculum

- 5 required courses
- Total program credits: 20 quarter credits

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IAS5100</td>
<td>Data Engineering</td>
<td>4 quarter credits</td>
</tr>
<tr>
<td>IAS5110</td>
<td>Digital Forensics Processes</td>
<td>4 quarter credits</td>
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<tr>
<td>IAS5120</td>
<td>Digital Forensics Tools</td>
<td>4 quarter credits</td>
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<tr>
<td>IAS5130</td>
<td>Programming for Security Professionals</td>
<td>4 quarter credits</td>
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<tr>
<td>IAS5200</td>
<td>Network Architecture and Cyberoperations</td>
<td>4 quarter credits</td>
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Course Descriptions

IAS5100 Data Engineering
Learners in this course gain an understanding of basic abstract data types and associated database operations by applying them to the solution of information security problems and performing reverse engineering of hardware components to determine their functionality, inputs, outputs, and stored data.

IAS5110 Digital Forensics Processes
Learners in this course apply forensics techniques to respond to and investigate financial incidents, and investigate and analyze devices on a variety of operating systems.

IAS5120 Digital Forensics Tools
Learners apply forensics techniques to investigate and analyze digital devices and constructs, including personal digital devices, network hosts, network traffic, various types of media such as thumb drives or other removable storage devices.

IAS5130 Programming for Security Professionals
Learners in this course create scripts and programs to automate and perform simple operations, including basic security practices. Learners develop and demonstrate the skills necessary to program low level languages, perform low level operations, and develop complex, low level software, typically in the C or assembly programming language. Learners apply these skills by programming and testing assembly-based, stand-alone, secure network management tools.

IAS5200 Network Architecture and Cyberoperations
Learners in this course study common security architectures to help identify potential vulnerabilities in architectures, and learn to design secure architectures. Learners identify issues related to the design and implementation of operating system concepts, components and interfaces, and design and implement significant architectural changes to an existing operating system. Learners also examine the authorities, roles, and steps associated with cyber operations, and develop a working knowledge regarding the security issues associated with building complex systems out of third-party components of unknown origin.

The courses in this program may require live web conferencing activities and/or learner audio/video recordings. Learners who require assistive technology or alternative communication methods to participate in these activities should contact Disability Services to request accommodations.
Tuition and Fees

This tuition estimate is effective July 10, 2017, and is subject to change. For current pricing, visit the Capella University website at www.capella.edu.

<table>
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<tr>
<th>TUITION/FEES</th>
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<tbody>
<tr>
<td>Tuition per credit</td>
<td>$682</td>
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<tr>
<td>Resource kit per quarter</td>
<td>$175</td>
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</tbody>
</table>

Financial Aid

Capella University offers assistance to learners who qualify and would like to secure educational funding to help finance their academic program. A number of options are available, given the diverse needs and backgrounds of prospective learners. Options include:

- Federal Direct Stafford Loan Program
- Federal Direct PLUS Loan Program
- Non-federal loans through preferred lenders and financial institutions
- Capella scholarships
- External scholarships
- Veterans’ educational benefits and U.S. armed forces discounts
- Corporate and higher education alliances
- Employer tuition reimbursement

Regarding loan programs, interest rates for Stafford student loans are low compared to other types of consumer loans, and repayment can be deferred until after graduation. In compliance with federal and state laws, Capella University has established policies for all learners regarding satisfactory academic progress, which is necessary for financial aid eligibility.

Digital course materials covered by the quarterly resource kit fee offer advantages such as immediate mobile access to books; fast, easy full-text search of materials; digital note-taking; and peer collaboration through note sharing.

There are many financial aid options available to help you offset tuition costs.

Contact an enrollment counselor at 1.888.CAPPELLA (227.3552) to discuss your financial aid opportunities.
Academic Leadership

Rhonda Capron, EdD
Dean
Dr. Rhonda Capron is an accomplished leader with remarkable business acumen, extensive academic experience and professional relevance within the confluence of today’s transformative marketplace. She brings a unique blend of background and experience to Capella as a seasoned executive and higher education leader with more than 15 years of experience successfully leading strategic initiatives and operations within high-tech businesses. She also has 10 years in higher education, including extensive, hands-on experience teaching; faculty and staff leadership; academic programming; curriculum development; and strategic planning. Dr. Capron joined Capella in 2016. She was previously the academic dean of the School of Business at University of Phoenix. Prior to that position, she held a number of academic leadership roles at William Jessup University in Rocklin, California. In addition she has an extensive background in both the business sector and the military. Rhonda was vice president of support services and software as a service at Oracle Corporation, and she served as the deputy director for operations within the Departments of Army and Energy.

Bill Dafnis, PhD
Associate Dean
Dr. Bill Dafnis is the associate dean of technology in Capella University’s School of Business and Technology and faculty chair for undergraduate technology. Bill joined Capella in 2014 to serve as faculty chair in the ABET-accredited BS in IT program. Prior to joining Capella, Bill served in faculty and academic leadership roles at other academic institutions. Preceding his academic career, Bill traversed a distinguished 20-year profession with the Chicago-based media conglomerate Tribune Company in leadership roles inclusive of information technology, project management, and operations management. Bill holds a PhD in Information Systems from Nova Southeastern University, Master of Science in Information Technology with a security focus from Carnegie Mellon University, Master of Business Administration from Lake Forest College, and Bachelor of Arts from the University of Illinois and is certified as a Project Management Professional (PMP). His research interests include the intersection of disruptive change and innovation planning, cloud computing economic models, business process modeling, project management, and information security.

Melissa Zgola, MS
Faculty Chair
Melissa Zgola joined Capella University in 2007 as an adjunct faculty member for the School of Technology and became a core faculty member in 2008, teaching courses in networking technology and software architecture. In 2012, she was named faculty chair for the Bachelor of Science in Information Technology program in the School of Business and Technology and served in that role until 2014 when she became faculty chair for the Master of Science in Information Systems and Technology Management and the MS in Analytics programs. Prior to joining Capella, Melissa spent several years as an online facilitator, instructor, and program director with The Art Institute Online, the Pittsburgh Technical Institute and ITT Technical Institute. She also served as an engineering technician for the Department of Labor, and senior system analyst for the University of Pittsburgh. She holds a BA in Psychology, and an MA in Counseling from West Virginia University, and an MS in Information Science from the University of Pittsburgh.
Move Forward with Capella University

WORKING SCHOLARS
Capella provides an online, flexible learning environment for working adults who are also determined scholars. That connection between academic and professional work infuses the entire Capella experience—from the faculty we recruit to the course projects you complete. The theories discussed in the courseroom are designed to develop working knowledge for everyday situations.

AN ACCREDITED UNIVERSITY
Our accreditation* is an assurance to students, employers, and the public that Capella University meets established standards for quality of faculty, curriculum, and learner services. It is also an important factor in the ability to transfer credits among higher education institutions. Regional accreditation, the type held by Capella, is the most common type for major public, state, and private institutions in the United States.

VALUING YOUR KNOWLEDGE AND EXPERIENCE
Adults bring a wealth of experience and learning to their education. Capella courses are designed to bring out your perspectives just as you gain from others’ ideas. Your knowledge can also be worth time and money: An enrollment counselor can help you estimate how much of your prior learning may apply toward your Capella degree program.

*ACCREDITATION
Capella University is accredited by the Higher Learning Commission.

HIGHER LEARNING COMMISSION
https://www.hlcommission.org
800.621.7440

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Important Information about the educational debt, earnings, and completion rates of students who attended this program: http://capellaresults.com/assets/includes/gainfulemployment/cta/GE/GE15/certs/GE_Cert_Tech_Digital_Forensics_Gedt.html.