



# Computer Science & Forensics

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## Course Descriptions

### FIRST YEAR COURSES

#### **CSF:CW7      Configuring Windows 7**

Train to install, deploy, and upgrade to the Microsoft Windows 7 operating system. Students will learn to manage hardware and software compatibility as well as Windows security features and network connectivity issues. Students will also be able to maintain systems, including monitoring for and resolving performance and reliability issues. This course prepares students for Microsoft Exam 70-680: TS: Windows 7, Configuring. Upon successful completion of this exam students will earn the Microsoft Certified Technology Specialist (MCTS) certification.

#### **CSF:OS      Operating System Function and Design**

Learn and understand file system types on various operating systems including Linux and Windows. Students will learn how to install and manage both operating systems. Students will use the command line to perform tasks necessary to maintain, repair, and update the operating system.

#### **BMT:PSF      Adobe® Photoshop Fundamentals**

Photoshop is the industry's most used photo-editing software. Students will learn how to select pixels; work with layers, gradients, adjustments and brushes; create special effects, and improve productivity. Students will have the opportunity to earn an Adobe Certified Associate (ACA) certification.

#### **ITA:3CF      Computing Fundamentals, Internet and Computing Core Certification**

Students will be introduced to the fundamentals of system design, computer processors, and memory. Students will work with different operating systems; learn about different types of system boards and how hard drives are designed.

#### **ITA:3LO      Living Online, Internet and Computer Core Certification**

Learn aspects of working in an Internet or networked environment including basic knowledge of networks and the Internet, skills in specific applications such as email, Web browsers, Web literacy, ergonomics, security, and Internet ethics. Students must pass the Living Online exam toward earning their IC<sup>3</sup> Certification.

#### **ITA:3KA      Key Applications, Internet and Computer Core Certification**

Students learn three applications (word processing, spreadsheet, and presentation software) and the commonalities of features between programs. Students must pass the Key Application exam toward earning their IC<sup>3</sup> Certification.

#### **CSF:CWS      Configuring Windows Server**

Students in this course will work with the Windows Server 2008 network operating system. Learn to install and manage Windows Active Directory, manage user accounts, and create group policies. Students will understand how to automate Windows deployment and manage server services such as IIS, DNS, and DHCP.



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### **CSF:NET Introduction to Networking**

Understand the fundamentals of TCP/IP protocol and the network architecture; students will learn about the layers of the Open Systems Interconnection Model and the role of the server in computer networks.

### **SWD:FA1 Financial Accounting 1**

Learn the principles of recording accounting transactions, accruals, receivables, payables, sales, purchases and the accounting cycle. Create and interpret financial statements such as the balance sheet and income statement.

### **CSF:ICS Introduction to Computer Security**

Learn the basics of protecting computer systems and the network infrastructure. Students will understand the fundamentals of cryptography and data encryption. Manage threats from viruses, spyware and zombie attacks. Students will monitor computer systems for intrusion attempts.

### **BMT:ENT Entrepreneurship: Owning your Future**

Discover strategies to generate ideas for business ventures and begin building your business from the ground up. Learn how the global economy and the legal environment of business laws and regulations affect business practices.

## SECOND YEAR COURSES

### **CSF:CNS Computer Network Security**

Learn the fundamentals of computer network security, access control, cryptography and organizational security. In this course students will be trained to protect computer systems and data as well as work with virtualization technologies. This course prepares students for the globally recognized CompTIA Security+ certification.

### **BMT:QB QuickBooks® Financial Software**

QuickBooks is the most widely used software for small businesses. Students will learn how to manage business bank accounts, customer invoices, vendor bills, and more.

### **SWD:HTM HTML & Web Design Fundamentals**

Develop Websites with XHTML utilizing tables, CSS, iframes and video with emphasis on Web standards and design.

### **SWD:PHN Designing Phone Applications**

Learn how to develop diverse mobile application for today's smart phones in the Android operating systems using Java and the Eclipse Development Environment.



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### **ITA:CAP IT Academy Capstone Project**

During the second year, students of the IT Academy will collaborate, plan, design, build, and implement a simulated company and will integrate their knowledge and skills across program majors including a business and marketing plan, website, acquisition of technology, and more.

### **CSF:FOR Computer Forensics**

Learn how to recover digital evidence from a crime scene and work with computer forensics tools. Students will set up their own forensics lab computer and conduct their own investigations. Students will explore ethical and legal issues. Course uses Microsoft as well as open-source products.

### **CSF:ACC Microsoft Access**

Students will learn how to structure a database, create and format database elements including tables, queries, and reports and how to manage and maintain databases.

### **BMT:PRF Professional Success Strategies**

Learn the strategies to succeed professionally including: professional behavior, appearance, and hiring ethics and regulations. Course includes career planning, job seeking, and interviewing.

### **SWD:PRG Introduction to Programming – VB**

Students are introduced to computer program design and development using Visual Basic. Emphasis is on object oriented programming and basic computer language structures that are common to all programming languages.

### **BMT:MGT Business Management**

Learn how to foster company and staff growth using strategies in human resource management, planning tools, safety and security procedures, facilities management, and vendor performance.