

COMPUTER SYSTEMS TECHNOLOGY (CST)

CST 0500 WebDesign Certification (0 Credits)

The Web Design Fundamentals Course is designed to equip individuals with the essential skills and knowledge required to create visually appealing, functional, and user-friendly websites. This course covers the foundational principles of web design, including design aesthetics, coding basics, user experience considerations, and responsive design techniques.

CST 0501 Introduction to Commercial Drones (0 Credits)

Focus: Prepare students for the Federal Aviation Administration (FAA) Part 107 Certified Drone Pilot examination. There is a separate FAA registration fee of \$160 for the examination. From drone science and engineering to weather theory, the role of the FAA regulations and safety procedures is to prepare students to become certified commercial drone operators. Students will also learn about cloud computing and other technologies that are transforming the Unmanned Aerial Vehicle (UAV) industry. This course is offered entirely online and can be started at any time. Topics: • Drone systems, Aerodynamics & Performance • Weight and balance • Aeronautical decision-making • Airports and the National Airspace • Aviation weather and UAV procedures • Federal Aviation Regulations • FAA exam and certification • Introduction to cloud technology • IoT and AI • A hybrid cloud with edge capabilities • Market demand for commercial UAV solutions • Unmanned Aircraft Systems (UAS) 101

CST 0502 Cloud Connected Drones Operations (0 Credits)

This course highlights mission planning, operations management, and many use cases across industries. It is offered entirely online and can be started at any time. Topics: • Introduction to Total Planetary Protection • Mission planning • Managing operations • Full life cycle management with TPP • Industry Overview • Unmanned Aircraft Systems (UAS) 102 • Business plan and services • Financial services • Mission assets The instructional materials required for this course are included and will be available online. Prerequisite: Introduction to Commercial Drones or the FAA Part 107 License.

CST 0503 Google IT Support Certificate (0 Credits)

Google Career Certificates provide job seekers with access to more than 1.3 million in-demand jobs through rapid reskilling without the need for a college degree or prior experience. The IT Support Certificate covers concepts related to IT support jobs, including troubleshooting, customer service, networking, system administration, operating systems, and security. Students will not only work with Linux, cloud computing and command-line interfaces, but they will learn how to assemble computers, write effective support documentation, route paths and subnets, manage device software, and more.

CST 0504 IT Bootcamp (0 Credits)

This course will acquaint students with the computer terminology and devices that help manage information today. Students will gain insight into computer hardware and the Microsoft Windows operating system. In addition, you will learn how to use the basic word processing functions of the popular Microsoft Word program. You will also learn how to use the Outlook email program and the best search techniques on the Internet. The curriculum will also cover the installation of RAM, expansion cards, and peripheral devices. Learn how to configure drivers and troubleshoot your Windows operating system, as well as how to reformat a hard drive, partition it, and load Windows. Additional topics include troubleshooting basics, researching errors online, hardware trends, buying a new PC (pre-built vs. custom), and standards for monitors, hard drive sizes, ports, and optical drives. Additionally, viruses, spyware, surge protectors, and backups will be discussed. Keyboarding skills recommended.

CST 0505 CompTIA A+ Certification (0 Credits)

A+ 220-1001 prepares you to be an entry-level IT professional. This designation covers the installation, configuration and maintenance of personal computers, laptops, and printers; as well as the principles of physical and TCP/IP networks. A+ 220-1002 covers the installation and configuration of operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses security, cloud computing fundamentals, operational procedures and the basics of networking and security/forensics. Emphasis will be placed on properly and safely diagnosing, resolving common hardware and software issues with correct documentation. The course also covers the basics of virtualization, desktop imaging and deployment while following professional operational procedures to troubleshoot and assemble components based on customer requirements. Prerequisite: Knowledge of hardware and operating systems recommended. Curriculum is included in course fee, and includes the electronic texts, hands-on labs and practice exam. The A+ 220-1001 or A+ 220-1002 exams are included in the cost of the course. Students must pass both the 220-1001 and 220-1002 exams to be certified.

CST 0506 CompTIA Network+ Certificate (0 Credits)

The Network+ certification is the standardized internationally recognized credential for people who are striving to become network professionals. This course provides professionals with a structured setting in which to review CompTIA's Network+ certification examination. This preparatory course will cover the following areas – # Establishing basic network design and connectivity # Understanding and maintaining network documentation # Identifying network limitations and weaknesses # Implementing network security, standards and protocols

CST 0507 PHP.MySQL (0 Credits)

PHP & MySQL are popular, open-source technologies ideal for quickly developing database-driven web applications. This intensive, hands-on course introduces the participants to the basics of PHP, explains how to set-up and work with a MySQL database, and demonstrates interactions between PHP and the database. Learn programming and database development techniques, build MySQL database-driven Web applications with PHP, and apply your learning to sample projects. Prerequisite: Basic Windows, keyboard and mouse skills; knowledge of basic database concepts is recommended.

CST 0508 Google UX Design Certificate (0 Credits)

Prepare for a career in the high-growth field of UX design, no experience or degree required. With professional training designed by Google, get on the fast-track to a competitively paid job. User experience (UX) designers focus on the interaction that users have with products, like websites, apps, and physical objects. They make those everyday interactions useful, enjoyable, and accessible. In this course, students will gain in-demand skills that will prepare them for an entry-level job. They will create designs on paper and in digital design tools like Figma and Adobe XD. By course end students will have a professional UX portfolio that includes three end-to-end projects. Upon completion, students can directly apply for jobs with Google and over 130 U.S. employers, including Walmart, Best Buy, and Astreya. Skills Covered • Follow the design process: empathize with users, define pain points, ideate solutions, create wireframes and prototypes, test and iterate on designs • Understand the basics of UX research, like planning research studies, conducting interviews and usability studies, and synthesizing research results • Apply foundational UX concepts, like user-centered design, accessibility, and equity-focused design • Create a professional UX portfolio that includes 3 end-to-end projects: a mobile app, a responsive website, and a cross-platform experience

CST 0509 Google Data Analytics Certificate (0 Credits)

Data Analytics is the collection, transformation, and organization of data in order to draw conclusions make predictions, and drive informed decision making. This course will allow you to gain in-demand skills that will prepare you for entry level jobs as a junior or associate data analyst, database administrator, and more!

CST 0510 Business Continuity & Disaster Recovery (0 Credits)

From hurricanes and blizzards to cyber attacks and hard drive failures, businesses are increasing at risk from natural and manmade disasters that threaten their ability to survive and recover from incidents. In this course we'll discuss the differences between disaster recovery and business continuity. We'll cover the basics of creating, implementing and testing both disaster recovery and business continuity plans. Students will participate in tabletop exercises and will develop templates that can be used to create their own plans for their own organizations. Participants will gain an understanding of types of disasters, and the differences between disaster recovery and business continuity. Students will also learn about recovery techniques and what steps to take to ensure that a business can survive. Students will participate in a tabletop exercise that will simulate the steps to take when an incident occurs. Target audience is IT staff that are responsible for maintaining systems or line of business staff that utilizes any form of technology. Handouts will be provided and templates and documents will be available online. Prerequisite: This course is appropriate for any level, no specific technological knowledge is required.

CST 0511 Accenture Apprenticeship (0 Credits)

Participate in the Accenture Apprenticeship program, gaining hands-on experience and skills in a professional setting.

CST 0512 CWP IT Support Certificate (0 Credits)

The CWP IT Support Certificate is a custom course designed for Career Connect IT Grant. This course teaches skills, including how to build a computer and install an operating system. This certificate is composed of five classes that work in progression from beginner level to advanced level. After completion, you will earn three industry level certifications in addition to the full overall IT Support Certificate.

Additional fees may apply

CST 0513 CompTIA AI Essentials (0 Credits)

AI essentials embark on your journey into the world of artificial intelligence with CompTIA AI Essentials. This course simplifies AI Concept and equips you with practical skills to enhance efficiency, foster innovations, and understand legal and ethical use of AI.
Additional fees may apply

CST 0600 AWS Cloud Foundations (0 Credits)

AWS Cloud Foundations is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing and support. All course content is developed and maintained by AWS to ensure the learning reflects current services and best practices.

CST 0601 CompTIA A+ Cert Review (0 Credits)

This course provides an intensive study period for the CompTIA A+ Core Series. Covering the following new content, emphasizing the technologies and skills IT Pros need to support a hybrid workforce
Additional fees may apply

CST 0700 AWS Cloud Architecture (0 Credits)

AWS Academy Cloud Architecting covers the fundamentals of building IT infrastructure on AWS. The course is designed to teach solutions architects how to optimize their use of the AWS Cloud by understanding AWS services and how they fit into cloud-based solutions. Although architectural solutions can differ depending on the industry, type of application, and size of the business, this course emphasizes best practices for the AWS Cloud that apply to all of them. It also recommends various design patterns to help you think through the process of architecting optimal IT solutions on AWS. Throughout the course, students will explore case studies that showcase how some AWS customers have designed their infrastructures and the strategies and services that they have implemented. Finally, this course provides opportunities for students to build a variety of infrastructures through a guided, hands-on approach.

CST 0701 AWS Cloud Operations (0 Credits)

AWS Academy Cloud Operations is designed to prepare participants to pursue entry-level DevOps, support, and cloud operations roles. It will also help prepare them to take the AWS SysOps Administrator – Associate exam. Emphasizing best practices in the AWS Cloud and recommended design patterns, this course will teach students how to solve problems and troubleshoot various scenarios. The course will show students how to create automatable and repeatable deployments of networks and systems on AWS and covers specific AWS features and tools related to configuration and deployment. With case studies and demonstrations, students will learn how some AWS customers design their infrastructures and implement various strategies and services. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities.

CST 0702 AWS Cloud Developing (0 Credits)

AWS Academy Cloud Developing is designed to help students gain technical expertise in development using cloud technologies and prepare them to take the AWS Certified Developer – Associate level AWS Certification exam. The curriculum is delivered through instructor-led classes, knowledge assessments, and hands-on labs. Students will also have access to course manuals, online knowledge assessments, a free practice certification exam, and a discount voucher for the certification exam.