

# 2025-2026 TTC Catalog

## Virtualization and Cloud Computing

### Certificate in Applied Science

#### 30 Credit Hours

This Program is designed for individuals with experience in computer technology that need additional expertise in virtualization and cloud computing. The program prepares students for certifications in CompTIA Cloud Essentials and Cloud+, VMware VCA and VCP. This certificate program is designed to provide expertise in virtualization and cloud computing technologies to prepare you for employment in this fast-growing field. It is ideal if you are employed or are pursuing employment in a business that includes virtualization and/or cloud technologies as a primary focus or a business that uses the cloud or virtualized technologies to support its business model. This program presents the knowledge and skills needed to develop, implement, and troubleshoot virtualized and cloud computing systems, infrastructure, and security for business and industry. This program will help you prepare for additional industry certifications such as Red Hat Certified Systems Administrator, Red Hat OpenStack, Red Hat System Systems Engineer and AWS Certified Cloud Professional exams.

#### Major Requirements

CPT 180 Shell Scripting 3  
CPT 298 Introduction to Software as a Service (SaaS) 3  
IST 165 Implementing and Administering Windows Directory Services 3  
IST 166 Network Fundamentals 3  
IST 190 Linux Essentials 3  
IST 191 Linux System Administration 3  
IST 192 Linux Network Applications 3  
IST 198 Cloud Essentials 3  
IST 253 LAN Service and Support 3  
IST 298 Advanced Cloud Computing 3

Total: 30

#### Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.