

Proposed Curriculum Changes for CTT AAS Degree Program (starting Fall 2020)

The following curriculum changes to the CTT AAS degree program are being proposed to accommodate the introduction of a new course to cover a critical industry need for computer and network security. In order to add this new course one existing course must be dropped from the degree requirements of the program. The course to be dropped will be CTT150 Microcomputer Hardware II. CTT150 will be replaced by a new course, CTT157 Introduction to Network Security.

The current computer technology program curriculum was established five years ago to meet the needs of a DOE TAACCCT grant. Now, five years of experience changes are being proposed to reflect the following:

- The increased need for computer and network security skills for all online systems
- A reduced focus on the need for hardware repair as computer hardware becomes more of a commodity item and becomes less expensive to replace rather than to repair
- The desire to provide students the opportunity to attain additional credentials of value including:
 - CompTIA A+ certification (offered in CTT100 and CTT110)
 - CompTIA Network+ certification (offered in CTT140)
 - CompTIA Security+ certification (offered in the proposed CTT157 course)
 - Microsoft MTA certifications (offered in CTT250)
 - Networking Fundamentals
 - Security Fundamentals
 - Windows Operating System Fundamentals
- The need to attract new students to the program by offering the opportunity to attain these other credentials of value.

1. Introduce a new course, CTT157 Introduction to Network Security, which will focus on the critical industry need for computer and network security. This course will use instructional materials from the CompTIA Security+ certification program. Students will gain a fundamental understanding of network and computer security concepts as well as have the opportunity to proceed on to a Security+ certification if they so choose.
2. Change name of *CTT100* from *Microcomputer Hardware I* to *Microcomputer Hardware* (dropping the "I"). This will reflect the dropping of the *CTT150 Microcomputer Hardware II* from the degree requirements for the program. This course is modeled after the CompTIA A+ x001 certification exam which focuses on desktop hardware.
3. Drop CTT150 Microcomputer Hardware II from the degree requirements for the CTT AAS program. This course was intended to be modeled after the CompTIA A+ x002 certification exam. However this course overlaps a significant portion of the material covered in CTT110 Microcomputer Operating Systems and Applications. So CompTIA A+ x002 certification material will be continued to be covered in CTT110.

4. Dropping CTT150 changes a number of other course prerequisites. These changes are as follows:

Course	Old Prerequisites	New Prerequisites
CTT260 Computer Capstone	CTT120 (Database) CTT245 (Net Inst & Config) CTT150 (MC HW II) or approval of instructor	CTT120 (Database) or CTT130 (Programming) CTT245 (Net Inst & Config) CTT110 (MS OS and Apps) CTT100 (MC Hardware) or approval of instructor
CTT250 Microsoft Cert Prep	CTT150 (MC HW II) CTT155 (Advanced Network) or approval of instructor	CTT110 (MS OS and Apps) CTT245 (Net Inst & Config) CTT157 (Intro to Net Sec) or approval of instructor
CTT255 Server Operating Sys	CTT150 (MC HW II) CTT140 (Intro to Comp Net) or approval of instructor	CTT110 (MS OS and Apps) CTT140 (Intro to Comp Net) or approval of instructor
CTT245 Net Inst & Config	CTT140 (Intro to Comp Net) or approval of instructor	CTT155 (Adv Comp Net) or approval of instructor
CTT157 Intro to Net Security (new)		CTT140 (Intro to Comp Net) or approval of instructor