Course Descriptions for all COMPUTER MAINTENANCE & SERVICE TECH courses
(in order by semester)

CISC 100 Computer Technology I (Cr4) (4:0)
Introductory course for Computer Information Technology majors with the goal of establishing entry-level skills for three CIT options: Software, Networking, and Web. HTML, programming logic and design, and basic networking concepts will be covered as well as the exploration of CIT careers, and Excel and Word core level skills.

ELEC 101 DC/AC Circuit Analysis I (Cr4) (3:3)
This course provides an introduction to the fundamentals of direct and alternating circuit theory including definitions of voltage, current, resistance, and power; Ohm's and Kirchoff's laws; and series-parallel circuit analysis. Concepts of magnetism and sine waves as they related to electronic are covered. Lab work emphasizes related hands-on skills such as circuit wiring, use of test equipment, and data taking and reporting. Prereq. - Appropriate competencies as outlined in the Mathematics Placement Policy or MATH 026 or MATH 028. Offered fall semester only.

ELEC 130 PC Support and Troubleshooting (Cr4) (3:2)
Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting desktop hardware and software. This course maps fully to CompTIA's latest A+ Exam objectives.

ELEC 131 Introduction to Networking Hardware (Cr2) (2:1)
Companion course to ELEC 130 to give a jump-start to students who already grasp the general concepts of PC repair and troubleshooting, but would like to focus attention in starting toward NET+ certification studies and an introduction to networking hardware components and the OSI model; networking equipment includes NICs, hubs, switches, routers and cabling, along with network topologies and the OSI model. Pre- or coreq- ELEC 130.

ENGL 101 English I (Cr3) (3:0)
A writing-intensive course giving close attention to the process of writing through networked workshops and conferences involved in preparation and revision of drafts. The course develops skills in logical and focused writing, through development of a main point by means of supporting ideas and evidence. In addition, students learn to integrate information from secondary sources through the use of summary, paraphrase, and direct quotation in various forms of thesis-based writing. Prereq. - Competence in reading and writing as determined by English Department through testing and/or course work. Also available through Online Learning. Approved for the Honors Program.

CISC 105 Desktop Operating Systems (Cr4)(4:0)
This course will introduce Desktop Operating System functions and utilities using operating systems such as Windows, Mac, Linux/Unix. Students will compare how the different operating systems handle user interface, file management, memory management, processor management, and network management.

CMTH 102 Speech Communication (Cr3) (3:0)
Basic principles of communication theory and practice, including speech preparation and delivery, and the effective use of critical thinking and listening in relation to intrapersonal, interpersonal, intercultural, and group communication.
ELEC 126 Digital Electronics I (Cr3) (2:2)
This introductory course in digital electronics covers topics such as number systems, combinational logic circuits, Boolean theorems, flip-flops, counters, arithmetic circuits, display interface, and data storage and transfer. Labs emphasize the use of specifications in prototyping and troubleshooting discrete component digital circuits. Schematic capture software is used to simulate and simplify circuits. Prereq.- ELEC 101.

ELEC 251 Network Installation and Maintenance (Cr3) (2:2)
Installation, maintenance and troubleshooting of the hardware for local area networks with emphasis on the hands-on, practical experiences needed to service enterprise computing systems used in industry; installation and maintenance of cable plants, interface cards, Internet working products, and system fault tolerance and diagnosis. Pre - or Coreq. - ELEC 130.

ENGL 151 English II (Cr3) (3:0)
Students continue to develop the academic writing and critical reading skills begun in English I. Students may elect to work on introduction to literature (L), report writing (R), or technical writing (T). Prereq.- ENGL 101. ENGL 151L (literature option) is approved for the Honors Program and has a designated as a Diversity (D) core course.

ELEC 254 Server I (Cr3) (2:2)
This course is designed to introduce students to installing and configuring server operating systems. This is an intensive hands-on course where students will learn the skills and knowledge necessary to implement a core Windows Server Infrastructure into an existing enterprise environment. Prereq. - ELEC 1

ELEC 257 Computer Electronics Practicum I (Cr3) (0:0:9 practicum)
Work-based experience assisting in the servicing of computer systems with focused exposure in carrying out routine maintenance, computer upgrades, common PC setup and repairs, and customer relations. Written analysis of problem solving project. Pre - or - Coreq. - ELEC 255.

ELEC 255 Server II (Cr3) (2:2)
In this course, students will continue their study of Windows Server administration started in ELEC254. More advanced topics include network and file services, load balancing and failover, and disaster recovery. This is an intensive hands-on course where students will learn advanced server administration. Prereq. - ELEC 251 and 254.

ELEC 272 Computer Electronics Practicum II (Cr3) (0:0:9 practicum)
Work-based experience assisting in the servicing of computer systems including networks and mainframes with focused exposure in carrying out troubleshooting, repair and upgrades. Written analysis of comprehensive systems problem solving project. Coreq.- ELEC 255. Course numbers ending with G are Writing Intensive (WI).

PHYS 152 Physical Science II (Cr3) (2:2)
A study of basic physics and chemistry including properties of matter, force and motion, work and machines, heat and combustion, electricity and magnetism, mechanics of liquids and gases, basic chemical reactions, atomic energy and radiation. Core: SCI.