

| <p style="text-align: center;">Computer Maintenance TEKS/LINKS – Student Objectives Two Credits</p> | <p style="text-align: center;">Suggested Time Ranges</p> |
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| <p>First Six Weeks</p> | |
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| <p>Maintenance Skills CM 3(A) The student will demonstrate effective verbal and written communication skills with individuals from varied cultures such as fellow workers, management, and customers. CM 3(B) The student will interpret appropriate documentation such as schematics, drawings, charts, diagrams, technical manuals, and bulletins. CM 5(D) The student will demonstrate an understanding of the rationale behind error messages and symptoms of hardware failures. CM 5(E) The student will know interrupt sequences and beep codes. CM 5(F) The student will identify priorities and interrupts at the system level.</p> | <p style="text-align: center;">8 days ongoing</p> |
| <p>Professional Standards/Employability Skills CM 1(A) The student will employ effective reading and writing skills. CM 1(B) The student will employ effective verbal and nonverbal communication skills. CM 1(C) The student will solve problems and think critically. CM 1(D) The student will demonstrate leadership skills and function effectively as a team member.</p> | <p style="text-align: center;">10 days</p> |
| <p>Safety, Ethics and Time Management CM 1(E) The student will identify and implement proper safety procedures. CM 1(F) The student will demonstrate an understanding of legal and ethical responsibilities in relation to the field of IT. CM 1(G) The student will demonstrate planning and time-management skills such as project management, including initiating, planning, executing, monitoring and controlling, and closing a project.</p> | <p style="text-align: center;">10 days</p> |
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| <p>Second Six Weeks</p> | |
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| <p>Computer Technologies CM 4(A) The student will explain the fundamentals of microprocessor theory. CM 4(B) The student will define the use of Boolean and Binary logic in computer technologies. CM 4(C) The student will explain the theories of magnetism, electricity, and electronics as related to computer technologies. CM 4(D) The student will explain proper troubleshooting techniques as related to computer hardware. CM 4(E) The student will differentiate among digital, and analog input and output electronics theory. CM 4(F) The student will explain the relationships relative to data-communications theory.</p> | <p style="text-align: center;">25 days</p> |

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| <p>CM 4(G) The student will describe the architecture of various computer systems.</p> <p>CM 4(H) The student will describe the function of computer components such as central processing units, storage devices, and peripheral devices.</p> <p>CM 4(I) The student will explain computer system environmental requirements and related control devices.</p> <p>CM 4(J) The student will identify new and emerging technologies that may affect the field of computer technology.</p> | |
| <p>Third Six Weeks</p> | |
| <p>Computer Operation</p> <p>CM 5(A) The student will identify the purpose and function of computer components in the operation of the computer system such as central processing unit, mother board, sockets, chipsets, basic input and output system and their drivers, memory, hard drive technologies, video cards, input and output devices and ports, and modem and network interface cards (NIC).</p> | <p style="text-align: center;">22 days</p> |
| <p>Semester Review & Test</p> | <p style="text-align: center;">3 days</p> |
| <p>Fourth Six Weeks</p> | |
| <p>Network</p> <p>CM 8(A) The student will explain the fundamentals of network connection and interface requirements.</p> <p>CM 8(B) The student will explain the steps required to install and configure a computer on a network.</p> <p>CM 8(C) The student will identify the steps to troubleshoot network connectivity.</p> | <p style="text-align: center;">20 days</p> |
| <p>Mobil Devices</p> <p>CM 5(B) The student will identify how mobile devices such as personal data assistants and cell phones operate.</p> <p>CM 5(C) The student will identify how mobile devices such as personal data assistants and cell phones connect and share data.</p> | <p style="text-align: center;">12 days</p> |
| <p>Fifth Six Weeks</p> | |
| <p>Operating Systems</p> <p>CM 6(A) The student will explain the fundamentals of an operating system.</p> <p>CM 6(B) The student will compare and contrast different operating systems.</p> <p>CM 6(C) The student will identify the operating systems of mobile devices.</p> | <p style="text-align: center;">20 days</p> |
| <p>Install & Configure Software</p> <p>CM 7(A) The student will identify the operational features and proper</p> | <p style="text-align: center;">13 days</p> |

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| <p>terminology related to computer software systems. CM 7(B) The student will evaluate application software packages. CM 7(C) The student will verify that software is properly licensed prior to installation. CM 7(D) The student will differentiate between types of software such as Software as a Service, single-user, per-seat, enterprise, freeware, shareware, and open-source licensing. CM 7(E) The student will explain proper troubleshooting techniques related to computer software.</p> | |
| <p>Sixth Six Weeks</p> | |
| <p>Troubleshooting Skills CM 5(D) The student will demonstrate an understanding of the rationale behind error messages and symptoms of hardware failures. CM 5(E) The student will know interrupt sequences and beep codes. CM 5(F) The student will identify priorities and interrupts at the system level.</p> | <p align="center">10 days</p> |
| <p>Career/Employment CM 2(A) The student will identify job opportunities and accompanying job duties and tasks. CM 2(B) The student will examine the role of certifications, resumes, and portfolios in the IT profession.</p> | <p align="center">10 days</p> |
| <p>Certification Review & Test</p> | <p align="center">13 days</p> |