

Technology Devices Maintenance I *Syllabus*

IRISH L. CORPUS

Imagine, Believe, and Achieve

The **Technology Devices Maintenance I** instructional program introduces students to the knowledge and hands-on skills required for careers in information technology, computer repair, and technical support.

Students will develop foundational competencies in computer hardware, operating systems, networking, printers, scanners, and computer maintenance while learning industry-standard troubleshooting techniques and safe work practices.

Through classroom instruction, laboratory activities, and project-based learning, students will strengthen their technical knowledge, critical thinking, communication, teamwork, and problem-solving skills while preparing for advanced technology courses and careers in the information technology industry.

This course follows the Arizona Department of Education Technology Devices Maintenance Curriculum and provides opportunities for students to begin preparing for the **Google IT Support Professional Certificate**, an industry-recognized credential recognized by the Arizona Department of Education for Career and Technical Education programs.

Grading Scale:

A	90 – 100%	Excellent
B	80 – 89%	Above Average
C	70 – 79%	Average
D	60 – 69%	Below Average
F	<60%	Failing
P	Passing	
I	Incomplete	

Bring the following items to class every day:

Notebook or binder with paper

Pen or pencil

Planner

DO NOT bring in class:

Food

Drinks

Anything prohibited by the student handbook

Expectations on all of your assignments and work:

1. Give full attention to your work.
2. Remember to write your name, class period and date on all your assignments.
3. Do not write or draw anything unnecessary on your work.
4. Do your best work everyday.
5. Place all your work which is to be turned into the teacher in the wire basket provided.

I follow the policy of “NO NAME, NO GRADE”

“Do your best work.”

Tardiness:

All tardies will be handled according to school policy. You should not be tardy to class as you have adequate time between classes. Use this time to get your materials for class and for bathroom breaks.

“Be Respectful!”

Absences:

Any missed work should be made up as soon as possible. **You are responsible for asking make-up work from me when you return.** For everyday you are absent, you will miss two or more assignments. Make sure to ask for help from me or from your classmate. If a student is sick or goes to a school activity, the student is responsible to make-up the work that is missed during their absence.

Basic Classroom Rules:

- Be on time.
- Do your best work.
- Be respectful.
 - Peers.
 - School properties.
- Be teachable/ flexible
- Follow all school rules.
- Be seated immediately and ready to work on assignments for the period.
- Please do not bring out any electronic devices (cell phones, headphones, games, etc.). You will be asked to bring it to me for safekeeping.
- Keep the room clean.
- I do not tolerate offensive language, physical harm to others or disruptions in class.
- Follow proper dress code.
- No food or drinks in class

Basic classroom procedures:

- Get your work for the day on the cart by the door.
- Listen attentively to the lecture and explanation about the work.
- Do your best work.
- Place all your work which is to be turned into the teacher in the wire basket provided. Make sure to turn in on the correct basket.
- Use your planner to write down assignments and any other important details, such as days missed and work turned in or makeup work.
- You are to remain in your seats until I dismiss the class at the end of the period. The bell does not dismiss the class. You do not dismiss the class.

FBLA-IT

FBLA-IT provides students with opportunities to develop leadership, communication, teamwork, and technical skills while preparing for careers in information technology. Through local, state, and national competitive events, students apply classroom knowledge in computer hardware, operating systems, networking, cybersecurity, troubleshooting, programming, and information technology concepts. Participation in FBLA-IT helps students build professionalism, confidence, and workplace readiness while preparing for careers and postsecondary education in the technology industry.

State Assessment

The state test is a requirement to all seniors. Senior should pass the state test with 60%. By passing the test, they can be exempted in taking the final exam.

Important Non-Discrimination

Whiteriver Unified School District does not discriminate on the basis of race, color, national origin, sex, sexual orientation, age, religion, or disability in admission or access to, or treatment or employment in, its educational programs or activities. Inquiries concerning Title VI, Title VII, Title IX, Section 504, and Americans With Disabilities Act may be referred to Superintendent Office, 959 South Chief Avenue (PO Box 190), Whiteriver, Arizona 85941, (928) 358-5800, or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Denver, Colorado 80204.

Lab time

Technology Devices Maintenance I is a hands-on course in which students spend more than **51% of instructional time** participating in laboratory activities, computer assembly, hardware installation, operating system activities, networking exercises, troubleshooting labs, and work-based learning experiences. Students will develop foundational technical skills by identifying and installing computer components, maintaining printers and scanners, configuring operating systems, performing preventive maintenance, understanding networking concepts, and troubleshooting basic hardware and software issues while demonstrating professionalism, teamwork, communication, and safe laboratory practices. Students are expected to follow all laboratory safety procedures, properly use computer repair tools and diagnostic equipment, maintain an organized work area, and complete all laboratory activities according to industry standards.

Irish I. Corpus

Technology Devices Maintenance Teacher

928-940-8181 ext 831

TECHNOLOGY DEVICES MAINTENANCE I

Curriculum

Unit 1 – Information System Components and Computer Hardware	Unit 2 – Printers and Scanners	Unit 3 – Basic Networking
Students will learn: • CPU architecture and manufacturers • Processor socket types • Air and liquid cooling systems • RAM types, speed, and capacity • Motherboard components • Expansion slots • Chipsets • BIOS, UEFI, and CMOS • Hardware compatibility • Environmental factors affecting computers • Clock speed and bus speed • Binary storage concepts • Memory and storage capacity • Ohm's Law • Voltage, current, resistance, and capacitance • Power supply characteristics • Wattage calculations • Power efficiency ratings	Students will learn: • Laser printers • Inkjet printers • Thermal printers • Impact printers • 3D printers • Scanner technologies • Wired and wireless connections • USB and network printer installation • Printer configuration • Printer maintenance • Printer troubleshooting • Scanner troubleshooting • Preventive maintenance	Students will develop skills in: • Network cable types • Copper and fiber optic media • Wireless networking • Wi-Fi standards • Network adapters • Routers • Switches • Modems • Wireless access points • Mesh networks • Repeaters • OSI Model • Network authentication • SSID • WPA • SSL • Basic network configuration

Unit 4 – Operating Systems	Unit 5 – Installing and Maintaining Operating Systems	Final Project
Students will develop skills in: • Microsoft Windows • macOS • Linux • Android • iOS • Operating system features • User interface navigation • File management • Administrative tools • Task Manager • Registry Editor • Command Prompt • PowerShell • File and folder management • Operating system utilities	Students will learn: • Operating system installation • Native and virtual operating systems • Customized installations • PXE deployment • Operating system upgrades • Data backup • Data recovery • Cloud storage • RAID • System images • Device driver installation • Security updates • Feature updates • System optimization • Boot sequence • Secure Boot • Recovery options • Cross-platform migration	Students will assemble a desktop computer, install and configure an operating system, connect and configure peripheral devices, troubleshoot hardware and software issues, configure a basic network connection, document repair procedures, and demonstrate professional technical support skills while following industry-standard safety and troubleshooting practices.

Certificate Offered

Google IT Support Professional Certificate



Students will have the opportunity to prepare for the **Google IT Support Professional Certificate**, an industry-recognized credential that develops the foundational skills required for entry-level careers in Information Technology support. The certification prepares students to install and configure operating systems, troubleshoot computer hardware and software, maintain technology devices, diagnose basic networking issues, perform preventive maintenance, implement cybersecurity best practices, and provide professional technical support and customer service. This credential is included on the **Arizona Department of Education CTE Industry Credential List** and aligns with the Technology Devices Maintenance program and career pathway.

Student Name: _____

Period: _____

SIGNATURE PAGE

Please sign and return to your course teacher.

I have read and understand the contents of the **TECHNOLOGY DEVICES MAINTENANCE I** syllabus. I promise to follow all the classroom rules and regulations in order to maintain a productive learning environment inside the classroom.

Student Signature
Date

Parent/Guardian Signature
Date