

Introduction Information Technology

Information Technology includes the entire world of computers – from learning how to use them, to creating them, to programming them, to repairing them. As technology improves, the desire for faster and more powerful equipment grows. Computer technology is quickly changing every industry – from agriculture to entertainment. People with a scientific understanding of computer technology will play a major role in America’s future. Opportunities will be great for innovative specialists who keep up with the latest technology.

Students may join the BPA – Business Professionals of America student leadership organization in order to participate in activities and competitions and develop leadership skills. The Technology Student Association (TSA) provides the same opportunities for students with more hands-on activities such as networking and computer repair and upgrading.

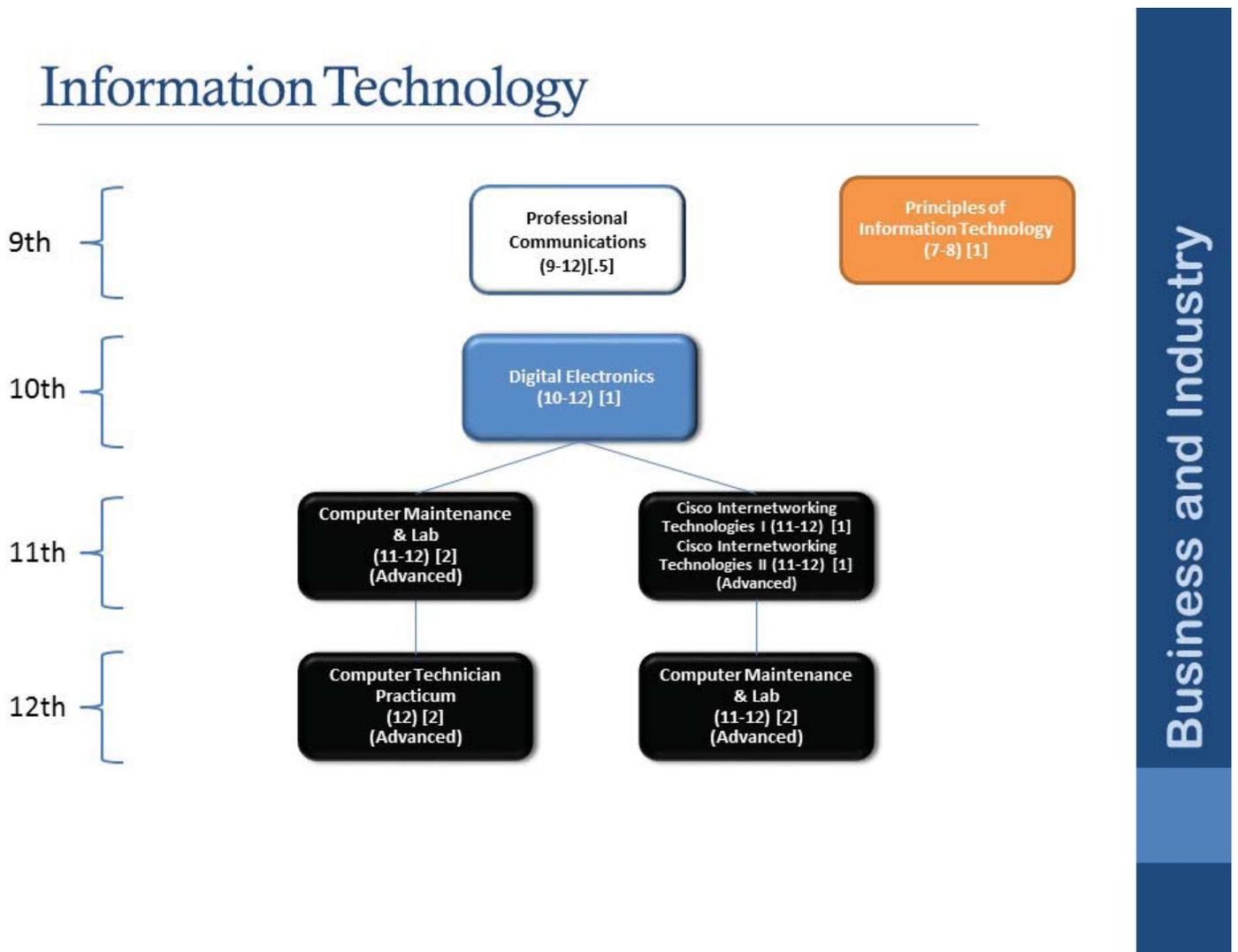
Career Opportunities Information Technology

Computer Systems Hardware Analyst
Cisco Certified Networking Associate
Computer Scientist/Engineer
Global Positioning Technician

Computer Security Specialist
Computer Repair Technician
Cryptanalyst Mathematician
Court Reporter

Computer Programmer
Website Designer
Computer Security
Computer Technician

Sequences Information Technology



T5510

Computer Maintenance and Lab

- ▶ **Grade Placement** 11-12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... None
- ▶ **Location**..... *Advanced Technology Complex*

Computer Maintenance covers the fundamentals of computer hardware and software as well as advanced concepts. Students learn about the internal components of a computer, assemble a computer system, install an operating system and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the internet and share resources in a network environment. Topics also include laptop and portable devices, wireless connectivity, security, safety and environmental issues, and communication skills. Students will explore a variety of topics including installation procedures, security issues, back up procedures and remote access. Hands-on lab activities are an essential element. Students will have an opportunity to test for certification.

T5515

Computer Technician Practicum

- ▶ **Grade Placement** 12
- ▶ **Credits** 2
- ▶ **Prerequisite**..... *Computer Maintenance*
- ▶ **Location**..... *Advanced Technology Complex*

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply and transfer their knowledge and skills to a variety of settings and problem solving situations. Students also prepare computers for the Computers for Kids Program and provide professional repair service to the community.

T5540 / T5545

Cisco Internetworking Technologies I & II

- ▶ **Grade Placement**..... 11-12
- ▶ **Credits**..... 1 + 1 = 2
- ▶ **Prerequisite**..... None
- ▶ **Location** *Advanced Technology Complex*
- ▶ **Partnerships** *Cisco Systems, Inc.*

Cisco Internetworking I / II curriculum covers networking based application, networking concepts within the context of network environment that students may encounter in their daily lives – from small office and home office (SOHO) networking to more large scale networking models. The curriculum is the Cisco Networking online computer based curriculum and hands-on lab assignments. Students will have an opportunity to test for certification.