

Information Technology

Computers touch almost every part of our lives, and so indirectly do the people who design them and the software that runs them. There's hardly a business or an industry or even an individual office in this country that doesn't depend on computer technology in a major way. The beauty of that is that with a background in IT, you can work for almost any type of company or industry under the sun. Not to mention that you'll be part of the wave of the future because you'll be helping to design tools by which the future unfolds.

Computer and data processing services are the fastest growing industries in the economy, with job opportunities expected to increase 86 percent in this decade. As the use of sophisticated computer networks grows, along with companies engaging in more and more electronic commerce through the Internet, the most demand in this industry will be for computer specialists such as systems analysts, network and computer systems administrators, computer support specialists, and computer and information systems managers.

Ten Highest-Paying Jobs In Info Technology

Occupation	Salary
1. Computer and Information Research Scientist.....	\$90,860
2. Computer Software Systems Engineer.....	\$82,160
3. Computer Software Applications Engineer.....	\$77,330
4. Computer Systems Analyst.....	\$68,370
5. Computer Programmer.....	\$65,910
6. Database Administrator.....	\$63,460
7. Operations Research Analyst.....	\$63,420
8. Network Systems/Data Communications Analyst.....	\$63,410
9. Computer Specialist.....	\$63,030
10. Computer Support Specialist.....	\$43,620

Pathway Requirements

For this specific pathway the requirements are 2.0 credits of required and 2.0 of the recommended courses.

To the right are tables which indicate the courses in each area. Included are other related courses which you may take for your own personal gain in the area of Networking Systems (Cisco).

Required Courses

Course #	Course Name	Credits
BCT502	Cisco Networking I	1
BCT602	Cisco Networking II	1

Recommended Courses

Course #	Course Name	Credits
VEE309	Computer Service & Support	1
VEE301	Digital Electronics I	1
VEE401	Digital Electronics II	.5
BCC307*	Visual BASIC I	.5
BCC308*	Visual BASIC II	.5
BCC305*	Java I	.5
BCC306*	Java II	.5
BCC512	AP Computer Science AB	1
ARA301	Fundamentals of Art	1
MAA401	Algebra II	1
VEW30*	Career Practicum	1

Related Courses

Course #	Course Name	Credits
BCT308	Technology Leadership Community	1

(*indicates that courses are Distance Learning)

Only required and recommended courses apply toward four Carnegie unit endorsements.

AHS

AVIANO HIGH SCHOOL



PROFESSIONAL
TECHNICAL
STUDIES

INFORMATION
TECHNOLOGY

What is the purpose of the Professional Technical Studies Program?

The Professional Technical Studies Department offers courses in many career fields to students in DoDEA middle and high schools. The mission of this department is to prepare our students to be technologically literate and employable in a global workforce.

DoDEA Career Clusters and Pathways

Career Clusters represent major groupings of similar occupations and industries within the U.S. job market (e.g., business, information technology, manufacturing, health, human services.) Each Cluster provides students with the “big picture” in terms of career options and an understanding of the broad industry. Within each of the career clusters are various Career Pathways which represent a variety of occupational fields or jobs associated with the career cluster.