

INFORMATION TECHNOLOGY

IT 1-Programming & Software Dev



8TH GRADE Principles of Computers & Coding (1)

9TH GRADE AP Computer Science Principles (1-LOTE) **College Credit via AP Exam*

OR
Computer Science I K (1-LOTE)

10TH GRADE Computer Science I K (1-LOTE)

OR
***Computer Science II K (1-LOTE)**
**College Credit via AP Exam*

11TH GRADE *Computer Science II K (1-LOTE) **College Credit via AP Exam*

OR
***Computer Science III K (1-LOTE)**
**IT Specialist-Java*
**Oracle Java SE 8 Programmer*

12TH GRADE *Computer Science III K (1-LOTE) **IT Specialist-Java* **Oracle Java SE 8 Programmer* OR ***Computer Science IV K (1)**

EXAMPLE OCCUPATIONS

Computer User Support Specialist

Median Wage: \$51,823
Annual Openings: 6,387
10-Year Growth: 21%

Software Developer

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Computer Programmer

Median Wage: \$87,997
Annual Openings: 1,176
10-Year Growth: 4%

IT 2-Networking Systems



8TH GRADE Principles of Computers & Coding (1)

9TH GRADE Networking (1)

**CompTIA Tech+ or *CompTIA A+*

10TH GRADE Computer Science I K (1-LOTE)

11TH GRADE Internetworking Technologies I (1)

CCST - Networking
**IT Specialist - Networking*
**Cisco CCNA*

12TH GRADE *Internetworking Technologies II (1) **CompTIA Network+*



Dual Credit towards Lone Star College Networking/Cybersecurity Certificates/Degrees may be available on your campus

EXAMPLE OCCUPATIONS

Computer Network Support

Median Wage: \$65,646
Annual Openings: 1,634
10-year Growth: 19%

Computer System Analyst

Median Wage: \$101,716
Annual Openings: 4,985
10-year Growth: 19%

Network/Computer Systems Admin

Median Wage: \$85,375
Annual Openings: 2,900
10-year Growth: 20%

IT 3 - Cybersecurity



8TH GRADE Principles of Computers & Coding (1)

9TH GRADE Networking

**CompTIA Tech+ or *CompTIA A+*

10TH GRADE AP Computer Science Principles (1-LOTE) **College Credit via AP Exam*

OR
Computer Science I K (1-LOTE)

AND Internetworking Technologies I (1)

**CCST - Networking*
**IT Specialist - Networking*
**Cisco CCNA*

11TH GRADE *Internetworking Technologies II (1) **CompTIA Network+*

12TH GRADE *Capstone - Cybersecurity (1)

**CompTIA Security+*

AND/OR

***Practicum in Information Technology (2)**

EXAMPLE OCCUPATIONS

Computer User Support Specialist

Median Wage: \$51,823
Annual Openings: 6,387
10-Year Growth: 21%

Software Developer

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Information Security Analyst

Median Wage: \$115,042
Annual Openings: 1,760
10-Year Growth: 49%

IT 4-Web Development



8TH GRADE Principles of Computers & Coding (1)

9TH GRADE Computer Science I K (1-LOTE)

OR
Digital Media (1)
**Adobe Photoshop*

10TH GRADE Web Design (1) **IT Specialist - HTML and CSS*

11TH GRADE *Web Game Development (1)

12TH GRADE *Capstone - Web Development (1)

EXAMPLE OCCUPATIONS

Web Developer

Median Wage: \$93,184
Annual Openings: 602
10-Year Growth: 24%

Software Developer

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Computer/Info Systems Manager

Median Wage: \$164,838
Annual Openings: 5,781
10-Year Growth: 26%