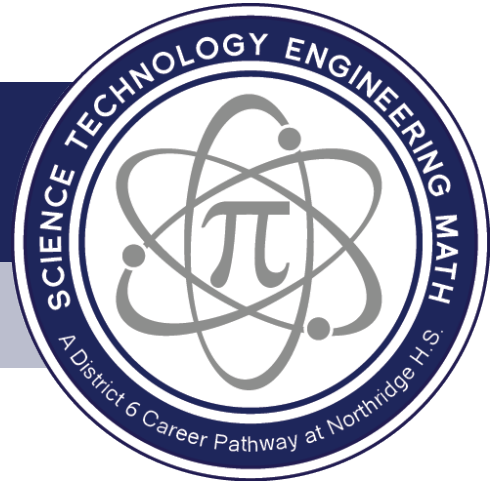


# STEM Academy



## Academy of Information Technology (AOIT) Pathway

Students in this pathway will develop skills in designing, supporting and managing hardware, software, multimedia, and systems integration. Students will be prepared to access IT careers at multiple entry points ranging from industry certifications to two-year and four-year degrees.



### GRADUATION REQUIREMENTS

Language Arts ..... 4.0 credits  
 Mathematics ..... 3.0 credits  
 Science ..... 3.0 credits  
 Social Studies ..... 3.0 credits  
 Physical Ed ..... 1.5 credits  
 Electives ..... 7.5 credits

\*4 yr college ready:

- 1 additional credit of math
- Minimum 2 credits of the same world language

### Pathways courses offered at Northridge (count as electives)

Principles of Technology (9th grade)  
 Computer Programming (10th grade)  
 Graphic Design (10th grade)  
 Science Research Techniques (11th grade)  
 Work Based Learning (11th grade)  
 Computer Systems (11th grade)  
 Webpage Design (11th grade)  
 Senior Capstone Seminar (12th grade)  
 Computer Networking (12th grade)  
 AP Computer Science (12th grade)

### CERTIFICATE OPPORTUNITIES

Successful completion of pathway and Concurrent Enrollment courses may lead to certification. Examples of certificates are:

- Telecommunications Line Installer
- Machine Tool Operator
- Security & Fire Alarm Systems Installer

### POST-SECONDARY OCCUPATIONS

Career Options	Salary Estimate	Minimum Degree Required
Desktop Publisher	\$37,000	Associate
Computer Programmer	\$74,000	Bachelor
Computer Engineer	\$100,000	Bachelor
Electrical Engineer	\$89,000	Graduate

### Extended Learning and Leadership Opportunities

HOSA (Health Occupations of America/Future Health Professionals) student organization. Career Explore Internships.

### Endorsement Opportunities (10 credits)

Successful completion of Principles of Technology, Computer Programming & Graphic Design, Computer Systems, Webpage Design, Computer Networking, Video Production or AP Computer Science, Information Technology Elective, and common STEM academy courses (10 credits) along with a 180 hour internship will lead to an Academy of Information Technology Endorsement.

### Early College Credit Opportunities (Concurrent Enrollment)

Below is a sampling of courses that may be taken prior to graduation:

CIS124 Intro to Operating Systems  
 CSC246 Mobile App Development  
 CSC160 Computer Science I

CIS267 Management of Info. Systems  
 CIS155 PC Spreadsheet Concepts  
 CIS243 Introduction to SQL