The Destinations Networking Pathway prepares students to test and evaluate computer network systems, set up or repair computer equipment and related devices, and help customers solve computer-related problems.

**DID YOU KNOW?**

$52,810/YR
11% JOB GROWTH
EXPECTED BY 2026

$81,100/YR
6% JOB GROWTH
EXPECTED BY 2026

*Program may be accelerated depending on student goals and abilities and course availability.

INFORMATION TECHNOLOGY (IT) 
NETWORKING PATHWAY

COURSE DESCRIPTIONS

IT AND MANUFACTURING EXPLORATIONS
If the manufacturing career field is not offered at your school, this course will be IT Explorations only.

This course is designed as an exploration of two career fields. Students receive an introduction to these fields so they can better assess which pathway to pursue. The first half of the course provides an introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools. The second half of the course has an introduction to engineering and to advanced manufacturing.

COMPUTER SCIENCE
This course introduces students to computer science concepts such as computer architecture, networks, and the internet. Students use object-oriented programming, event-driven processes, modular computer programming, and data manipulation algorithms to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in this subject.

NETWORK+ GUIDE TO NETWORKS 1 AND 2
These courses give students the technical skills and industry know-how to pursue an exciting career installing, configuring, and troubleshooting computer networks. Students explore on-the-job stories, application activities, and hands-on projects to develop real-world problem-solving skills.

SECURITY+ 1 AND 2
These courses cover the essentials of network security, including compliance and operational security, threats and vulnerabilities, application, data, and host security, access control and identity management, and cryptography, mobile device security, and virtualization. The use of case studies allows students to explore real-world security scenarios, and hands-on projects allow students to apply what they have learned.

VISIT K12.COM/DESTINATIONS
CALL 855.628.9525
The Destinations Web and Digital Communications Pathway prepares students to design, build, or maintain websites and applications; design graphics and animations; and develop design layouts.

**SAMPLE COURSE PROGRESSION**

**4-YEAR PLAN**

<table>
<thead>
<tr>
<th>9TH</th>
<th>10TH</th>
<th>11TH</th>
<th>12TH</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Adobe® Photoshop®</td>
<td>Adobe® DreamWeaver®</td>
</tr>
<tr>
<td>Digital Arts 2</td>
<td>Adobe® Illustrator®</td>
<td>Adobe® InDesign®</td>
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**3-YEAR PLAN**

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</tbody>
</table>

**Possible Careers**
- Webmaster
- Web Designer
- Web Developer
- Digital Media Specialist
- Multimedia Producer
- Multimedia Artist and Animator
- Digital Artist
- Graphic Designer

**Industry-Recognized Credentials**
The Destinations Web and Digital Communications Pathway prepares students for the:
- National Occupational Competency Testing Institute Web Design Exam
- Adobe Certified Associate (ACA) certifications

**Success Beyond High School**
Graduates from the Destinations Web and Digital Communications Pathway may pursue:
- Graphic design certificate
- Associate’s degree in graphic communications
- Bachelor’s degree in visual and performing arts

**DID YOU KNOW?**

**GRAPHIC DESIGNERS CAN EARN**

$48,700/YR

4% JOB GROWTH EXPECTED BY 2026

**MULTIMEDIA ARTISTS CAN EARN**

$70,530/YR

8% JOB GROWTH EXPECTED BY 2026

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DIGITAL ARTS 1

In this exploratory course, students learn the elements and principles of design as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they’ve learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

DIGITAL ARTS 2

Students build on the skills and concepts they learned in Digital Arts 1 as they develop their vocabulary of digital design elements. By the end of the course, students will have created a collection of digital art projects for their digital design portfolio.

ADOBE® PHOTOSHOP®

This course provides a solid foundation for students to learn cutting edge technology for sophisticated digital editing. Students progress from basic to advanced Photoshop® techniques and learn not only the how, but also the why, behind each Photoshop® tool to help students excel at design as well as master the software.

ADOBE® ILLUSTRATOR®

This course provides students in-depth exploration in all areas of Adobe® Illustrator®. Beginning with fundamental concepts and progressing to the software’s full set of features, this course allows students to build a portfolio by completing projects that explore and express their unique creative talents.

ADOBE® DREAMWEAVER®

This course helps students master the industry-standard web development software by emphasizing all aspects of Dreamweaver® such as its interface, features, and functionality. The course includes hands-on projects and real-world case studies to help students hone their skills and appreciate their professional relevance. The course explores cutting-edge web standards and design trends that can serve students well throughout their careers.

ADOBE® INDESIGN®

This course provides students with an in-depth exploration of Adobe® InDesign®, the industry standard for page layout software. This course covers fundamental concepts, starting with the workspace, and proceeds logically and intuitively to more advanced topics. Students learn how to work in InDesign® using either Mac® or PC platforms, and the course includes extensive coverage of Creative Cloud features.
The Destinations Programming and Software Development Pathway prepares students to learn computer languages, create software programs, maintain computer systems and software, and help others solve computer program-related issues.

**DID YOU KNOW?**

**SAMPLE COURSE PROGRESSION**

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<td>Programming Logic &amp; Design</td>
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</tbody>
</table>

**Possible Careers**

- Applications Software Developer
- Computer Programmer
- Computer and Information Systems Manager
- Software Quality Assurance Engineer
- Systems Software Developer

*Some careers require a college education and other certifications that are not part of this program.

**Industry-Recognized Credentials**

The Destinations JAVA™ Program prepares students for the:
- National Occupational Competency Testing Institute Computer Programming Exam

**Success Beyond High School**

Graduates from the Destinations JAVA™ Program may pursue:
- Computer science certificate
- Associate’s degree in information technology
- Bachelor’s degree in computer science

**DID YOU KNOW?**

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<tr>
<th>SOFTWARE DEVELOPERS</th>
<th>COMPUTER PROGRAMMERS</th>
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<td><strong>OVER 290,000 U.S. JOBS</strong></td>
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IT AND MANUFACTURING EXPLORATIONS

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COMPUTER SCIENCE

This course provides a solid foundation using an algorithm-driven approach that is ideal for students’ first course in computer science. Students learn about emerging topics, such as privacy, drones, cloud computing, and net. Students also are introduced to programming languages such as C++, Java™, Python, C#, and Ada.

PROGRAMMING LOGIC AND DESIGN

This course prepares student programmers for success by teaching them the fundamental principles of developing structured program logic. This course takes a unique, language-independent approach to programming, with a distinctive emphasis on modern conventions, and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.

JAVA™ PROGRAMMING 1 AND 2

These courses introduce programmers to the power of Java™ for developing applications while learning the basic principles of structured and object-oriented programming. These courses incorporate the latest version of Java™ with meaningful real-world exercises, and a wealth of case problems helps students build skills critical for ongoing programming success.

OTHER ELECTIVES

May not be offered at every school, every semester. Check with your school for details.

The Destinations Programming and Software Development Pathway prepares students to learn computer languages, create software programs, maintain computer systems and software, and help others solve computer program-related issues.

SAMPLE COURSE PROGRESSION

Possible Careers**
- Applications Software Developer
- Computer Programmer
- Computer and Information Systems Manager
- Software Quality Assurance Engineer
- Systems Software Developer

Some careers require a college education and other certifications that are not part of this program.

Industry-Recognized Credentials
The Destinations Python™ Program prepares students for the:
- National Occupational Competency Testing Institute Computer Programming Exam

Success Beyond High School
Graduates from the Destinations Python™ Program may pursue:
- Computer science certificate
- Associate’s degree in information technology
- Bachelor’s degree in computer science

DID YOU KNOW??


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COMPUTER LITERACY

Students must be able to effectively use technology to research, organize, create, and evaluate information. In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understanding social and ethical issues around the internet, information, and security. In the first part of the course, the focus is on the fundamentals: learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware, and operating system. In the second part, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

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PYTHON™ PROGRAMMING

This course presents essential computer science topics, while also instructing on the Python programming language. Python is easy to learn and scales well to advanced applications. The course is engaging and brings relevance of the concepts and applications from the text to the real world. Hands-on labs teach students to write and run code in an Integrated Development Environment (IDE) from their web browser. A chatbot provides hints and feedback when students get stuck, which encourages persistence through on-demand assistance.

PROGRAMMING LOGIC AND DESIGN

This course prepares student programmers for success by teaching them the fundamental principles of developing structured program logic. This course takes a unique, language-independent approach to programming, with a distinctive emphasis on modern conventions, and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.

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The Destinations Programming and Software Development Pathway prepares students to learn computer languages, create software programs, maintain computer systems and software, and help others solve computer program-related issues.

**DID YOU KNOW?**

**SAMPLE COURSE PROGRESSION**

**Possible Careers**
- Applications Software Developer
- Computer Programmer
- Computer and Information Systems Manager
- Software Quality Assurance Engineer
- Systems Software Developer

**Industry-Recognized Credentials**
The Destinations C++ Program prepares students for the:
- National Occupational Competency Testing Institute Computer Programming Exam

**Success Beyond High School**
Graduates from the Destinations C++ Program may pursue:
- Computer science certificate
- Associate’s degree in information technology
- Bachelor’s degree in computer science

**COMPUTER AND INFORMATION SYSTEMS MANAGERS CAN EARN**
$139,220/yr
12% JOB GROWTH
EXPECTED BY 2026

**SOFTWARE DEVELOPERS CAN EARN**
$103,560/yr
24% JOB GROWTH
EXPECTED BY 2026
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C++ PROGRAMMING

This course teaches students to use problem-solving skills involving full-code examples to demonstrate how and why to apply programming concepts while using C++. Programming exercises strengthen student understanding of program design. Students will walk through the stages of Input, Output, Problem Analysis, and Algorithm Design to illustrate key concepts.

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**DID YOU KNOW?**

**SAMPLE COURSE PROGRESSION**

**Possible Careers**
- Applications Software Developer
- Computer Programmer
- Computer and Information Systems Manager
- Software Quality Assurance Engineer
- Systems Software Developer

**Industry-Recognized Credentials**
The Destinations CSS/HTML5 Program prepares students for the:
- National Occupational Competency Testing Institute Computer Programming Exam

**Success Beyond High School**
Graduates from the Destinations CSS/HTML5 Program may pursue:
- Computer science certificate
- Associate’s degree in information technology
- Bachelor’s degree in computer science

**DID YOU KNOW?**

**COMPUTER PROGRAMMERS CAN EARN**

$82,240/YR

OVER 290,000 U.S. JOBS

AS OF 2016

**SOFTWARE DEVELOPERS CAN EARN**

$103,560/YR

24% JOB GROWTH

EXPECTED BY 2026

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HTML5 AND CSS3 PROGRAMMING

This course is intended to teach students to build effective websites using real-world case scenarios. The course utilizes tutorials based on a case problem that leads students through the creation of a website while they master new techniques and complex concepts. Students strengthen their problem-solving skills by working through realistic exercises that help them retain the material and apply what they’ve learned in a professional environment.

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- Applications Software Developer
- Computer Programmer
- Computer and Information Systems Manager
- Software Quality Assurance Engineer
- Systems Software Developer

*Some careers require a college education and other certifications that are not part of this program.

**Industry-Recognized Credentials**
The Destinations Game Design Program prepares students for the:
- National Occupational Competency Testing Institute Computer Programming Exam

**Success Beyond High School**
Graduates from the Destinations Game Design Program may pursue:
- Computer science certificate
- Associate's degree in information technology
- Bachelor's degree in computer science

**DID YOU KNOW?**

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GAME DESIGN 1
Game Design 1 encourages students to use their creative and technical skills as they learn about the many aspects of designing games. The course explores different types of video game software and hardware, gaming platforms, technical skills necessary to design games, troubleshooting, internet safety techniques, and the history of gaming. Students will also create their own plan for a 2D video game. The course is designed to help prepare students either for postsecondary education in game design or for an entry level career.

GAME DESIGN 2
Game Design 2 will give you the skills to conceptualize, design, and fully create your own video game. Explore various video game software and hardware, sharpen your coding skills, and learn about game storylines, player progression, and algorithmic decision making. This course allows you to analyze player goals, player actions, rewards, and challenges, among many other game play components. Utilize 21st century skills involving creativity, critical thinking, communication, collaboration, and technical expertise.

PROGRAMMING LOGIC AND DESIGN
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