Information Technology

Pathways in Information Technology prepare students for occupations in the fields of computer programming, software applications development, web design, and computer repair/installation. Students have the opportunity to design, develop, and manage different types of software programs and hardware.

SAMPLE CAREERS
- Computer Engineering
- Computer Programming
- Game Programming
- Networking
- Web Design & Development
- Software Engineer
- Web Designer/Developer
- Multimedia Producer
- Network Administrator
- Database Manager
- Security Analyst

Media & Communication Arts

Pathways in Media & Communication Arts introduce students to the ever-growing array of new media forms. Students who are interested in becoming producers, directors, journalists, website designers, and multimedia artists can explore their interests in these pathways.

SAMPLE CAREERS
- Actor/Actress
- Journalist
- Graphic Designer
- Video Producer
- Audio Engineer
- Costume Designer
- Social Media Marketing/Management

Law & Public Safety

In Law & Public Safety pathways, students are introduced to careers in law and criminal justice. Students are provided in-depth exposure to topics including criminal justice, law enforcement, family law, and forensic science. This pathway is a great fit for students who want to serve their communities and get real-life experience in courtrooms, law enforcement, and crime scene investigation.

SAMPLE CAREERS
- Chicago Police & Firefighter Training Academy
- Attorney
- Police Officer
- Paramedic
- Pre-Law
- Fire Fighter
- Judge
- Paralegal

Personal Care Services

The Personal Care Services pathways prepare students for careers in the professional hair and beauty industry by providing real world experiences in state-of-the-art cosmetology and barbering labs. Students participate in citywide events and activities that provide the opportunity to earn the hours they need to get their state license.

SAMPLE CAREERS
- Barbering
- Cosmetology
- Barber
- Make-up Artist
- Stylist

Manufacturing & Pre-Engineering

Pathways in Manufacturing & Pre-Engineering develop students’ science, technology, engineering, and math skills. Students learn the process of designing, assembling, and packaging items that we use every day. Computer technology and state-of-the-art machine tools are used to develop and strengthen knowledge and understanding of concepts learned in the classroom.

SAMPLE CAREERS
- Machine Technology
- Pre-Engineering
- Machinist
- Welding Technician
- Quality Technician
- Manufacturing Engineer
- Production Engineer
- Environmental Engineer

Transportation

Students in Transportation pathways are prepared for careers in which they plan, manage, and move people, materials and products by road, air, rail and water. These pathways prepare students to work on cars and trucks and navigate airplanes in a fast growing industry.

SAMPLE CAREERS
- Automotive Technology
- Auto Body Repair
- Automotive Technician
- Truck Driver
- Pilot
- Aviation
- Diesel Technology
- Air Traffic Controller
- Drone Operator

Guide to CTE

An overview of Career & Technical Education pathways at the Chicago Public Schools

Get involved!

at a school near you! Visit
www.cps.edu/academics/career-and-technical-education/

to learn more about pathway locations!
### What is Career & Technical Education?

Career & Technical Education (CTE) is a collection of high school programs that prepare students for college and career success by providing core academics, employability skills, and technical skills. As part of their CTE program, students may earn industry certifications and/or earn college credit in addition to a high school diploma. Students can graduate better prepared for high skill, high wage, and in-demand careers and all other post-secondary options.

### What are the benefits of CTE?

- Industry certifications
- Saving students hundreds of dollars
- Summer internships
- Get experience working at top companies such as Lurie Children’s Hospital or Chase
- College Credit
- Students may start college with credits
- Students gain the project management and technical skills needed to turn plans into products.
- Students may earn industry certifications and/or earn college credit in addition to a high school diploma.

### How can students apply to CTE?

- 8th graders apply online at go.cps.edu
- 9th & 10th graders should speak with their high school counselor to sign up

### Pathways in Education and Training

Focus on the development of excellent teachers and caretakers. Students learn current educational theories and put their knowledge into practice by working in elementary schools and local daycares.

#### Key Careers
- Teacher
- School Counselor
- Corporate Trainer
- Principal
- College Professor
- Coach

### Agricultural Sciences

Students studying **Agricultural Sciences** learn the science, business, and technology involved in plant and animal production. In the classroom, students learn concepts involved in improving the quality and safety of food; caring for animals; managing agriculture business; and cultivating natural resources. Students then put theories into practice working on a farm, in a kitchen, or green house.

<table>
<thead>
<tr>
<th>Sample Careers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Applied Biology</td>
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<tr>
<td>Agricultural Business</td>
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<tr>
<td>Agricultural Business</td>
</tr>
<tr>
<td>Animal Science</td>
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<tr>
<td>Food Science</td>
</tr>
<tr>
<td>Agricultural Teacher</td>
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</tbody>
</table>

### Architecture & Construction

In **Architecture & Construction** pathways, students gain the project management and technical skills needed to turn plans into products. Students get hands-on experience working with power tools, rendering blueprints, and managing projects. Each pathway focuses on one specific field related to architecture and construction.

<table>
<thead>
<tr>
<th>Sample Careers</th>
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</thead>
<tbody>
<tr>
<td>Architecture</td>
</tr>
<tr>
<td>Carpenter</td>
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<tr>
<td>Chicago Builds</td>
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<tr>
<td>Contractor</td>
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<tr>
<td>Electrician</td>
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<tr>
<td>Carpenter</td>
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</tbody>
</table>

### Business

**Business** pathways are designed to prepare students for careers in accounting, banking, insurance, and financial management. Students learn to plan, organize, direct, and evaluate operations so they can run a successful business. Students participate in competitive events through Business Professionals of America (BPA), and Network For Teaching Entrepreneurship (NFTE).

<table>
<thead>
<tr>
<th>Sample Careers</th>
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</thead>
<tbody>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>Entrepreneur</td>
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<tr>
<td>Personnel Recruiter</td>
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<tr>
<td>Accountant</td>
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</tbody>
</table>

### Culinary & Hospitality

The **Culinary & Hospitality** pathways prepare students for careers in management, marketing, and operations. Students are provided with opportunities to practice managing employees; assembling and preparing a restaurant menu; and developing exceptional customer service skills. Culinary and Hospitality pathways prepare students for success in any customer oriented field.

<table>
<thead>
<tr>
<th>Sample Careers</th>
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</thead>
<tbody>
<tr>
<td>Culinary Arts</td>
</tr>
<tr>
<td>Food Service Manager</td>
</tr>
<tr>
<td>Nutritionist</td>
</tr>
</tbody>
</table>

### Health Sciences

In **Health Sciences** pathways, students learn medical terminology; study human anatomy; and investigate the prevention, treatment, and management of illnesses. Health Science exposes students to a myriad of careers in healthcare and to a future that is dedicated to helping others.

<table>
<thead>
<tr>
<th>Sample Careers</th>
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<tbody>
<tr>
<td>Allied Health</td>
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<tr>
<td>Medical Assisting</td>
</tr>
<tr>
<td>Allied Health</td>
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<tr>
<td>Physical Therapist</td>
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<tr>
<td>Pediatrician</td>
</tr>
<tr>
<td>Occupational Therapist</td>
</tr>
</tbody>
</table>

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**Agricultural Sciences**

**Culinary & Hospitality**

**Health Sciences**