

# CTAE Pathways

# Fine Furniture and Cabinetmaking

## Description:

- Students will build handmade furniture from solid wood at a professional level
- Hands on: learning heavy machinery
- Building and creating furniture
- [HCHS Furniture Site](#)

## Skills/Interests:

Strong Work Ethic  
Eye for Design  
Learns By Doing  
Woodworking

## Careers:

Construction  
Cabinetmaker  
Furniture Designer  
Interior Designer

## End of Pathway Assessment:

NOCI Cabinetmaking

## Pathway Courses:

Fine Furniture and Cabinetmaking 1  
Fine Furniture and Cabinetmaking 2  
Fine Furniture and Cabinetmaking 3



CTSO: [SkillsUSA](#)

## Lab Details:

- Lab fee required
- Additional material cost are needed
- 90% or better on all machine test
- Full woodshop with dress code requirements
- No jewelry, no loose clothing, closed toe shoes

If this pathway  
interests you, sign  
up for...  
**Fine Furniture 1**

# Graphics



## Description:

- Learning Graphic Design
- Exploring the Elements of Art and Principles of Design
- Print Graphics and Digital Art

## Pathway Courses:

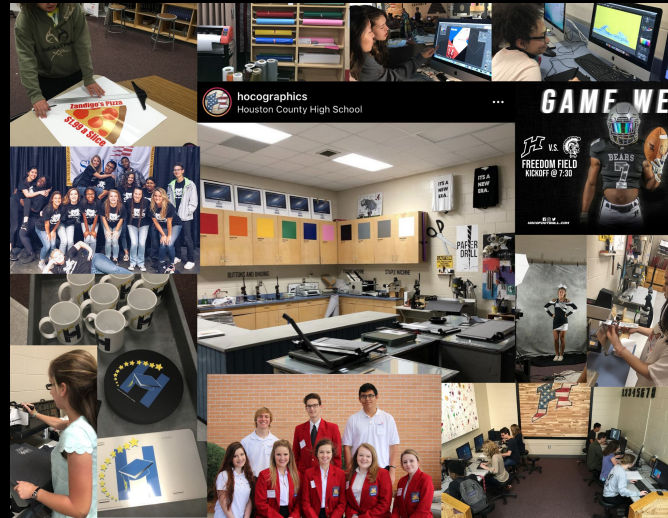
Introduction to Graphic Design  
Graphic and Production  
Advanced Graphics

## Skills/Interests:

Computer Proficient  
Digital Art  
Specialty Printing  
Layout Design

## End of Pathway Assessment:

SkillsUSA Skills  
Connect Ad Design



## Careers:

Graphic Designer  
Digital Artist  
Photographer/ Videographer  
Entrepreneur  
Illustrator  
Print Shop

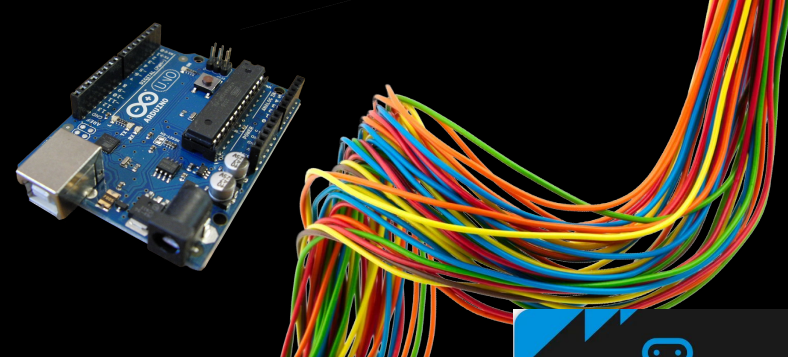
## Lab Details:

Full Service Print Shop  
including wide format  
printing, sublimation, digital  
press and more!

If this pathway  
interests you, sign up  
for...

**Introduction to  
Graphic Design**

# Engineering



## Description:

- Introduces basic engineering disciplines
- Project-based curriculum

## CTSO:

- Technology Student Association (TSA)

## Skills/Interests:

- Analytical
- Strong Math Sense
- Good with Hands-On Projects

## Lab Details:

- Hands-On Projects
- Lab Fee

## End of Pathway Assessment:

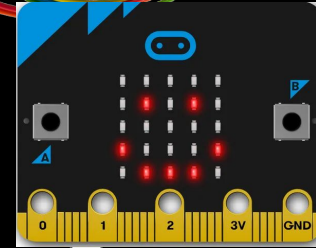
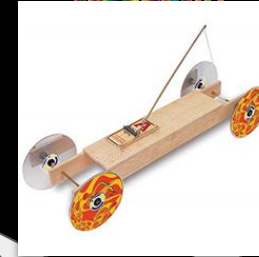
- NOCTI Engineering Assessment

## Pathway Courses:

1. Foundations of Engineering
2. Engineering Concepts
3. Engineering Applications

## Careers:

- Engineering



If this pathway interests you, sign up for...

**Foundations of Engineering**



# AFJROTC: Air Force Junior Reserve Officer Training Corps

## Description:

Students will take a variety of courses that cover basic military customs and courtesies, Air Force history, physical/ health education, management, cultural awareness, and space exploration

## Skills/Interests:

Leadership, management, team building, citizenship, attention to detail, camaraderie, drive & determination

## Pathway Courses:

AS/LE 100, AS/LE200, AS/LE300 & AS/LE400

## Careers:

Active/reserve military (5 Branches of Service), computer science, engineering, technology, math professions

Lab Details: N/A

End of Pathway Assessment: N/A

CTSO: <https://hchsga932.weebly.com/>



If this pathway  
interests you, sign  
up for...  
**AFJROTC**

Summer Leadership Camp  
Georgia Military College: Repel Tower

# Nutrition and Food Science

## Description:

- Project-Based Learning Course focused on wellness and nutrition necessary for being well and living healthy

## Skills/Interests:

- Teamwork
- Public Speaking
- Strong Science Background
- Organizational Skills
- Projects

## End of Pathway Assessment:

ServSafe Food Handler

## CTSO: FCCLA

## Careers:

- Dietician
- Nutritionist
- Food Scientist
- Dietetic Tech
- Fitness & Wellness Coordinator
- Food Service Managers

## Pathway Courses:

- Food, Nutrition, and Wellness
- Food for Life
- Food Science

**Lab Details:** Labs are reserved for upper level courses. Hair must be tied back, closed toed shoes must be worn, and no jewelry in the lab



If this pathway  
interests you, sign  
up for...

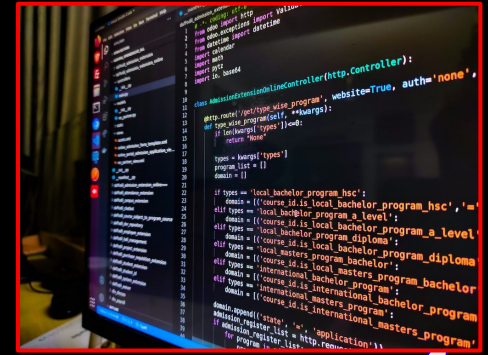
**Food, Nutrition,  
& Wellness**

# Computer Science

## Description:

Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

CTSO: [FBLA](#)



## Skills/Interests:

- Problem-solving
- Collaboration
- Curiosity
- Creativity

## Careers:

- Software Engineer
- Mobile App Developer
- IT Project Manager

## Pathway Courses:

- Introduction to Software Technology
- Computer Science Principles or AP Computer Science Principles
- AP Computer Science A

End of Pathway: NOCTI Computer Programming

If this pathway  
interests you, sign  
up for...  
**Introduction to  
Software  
Technology**

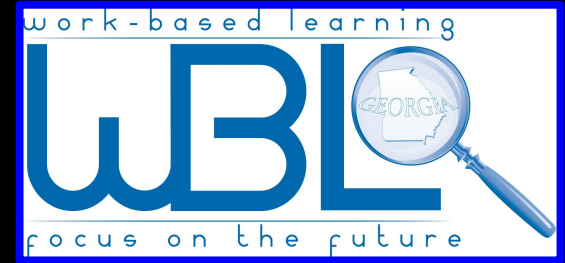
# Work-Based Learning

## Description:

- **Be a rising Junior or Senior**
- Have a qualifying job
- Have a great work ethic
- Have a qualifying pathway
- Have favorable teacher recommendations
- Be self-motivated

Applications are available in front at the Counseling Office

Turn in to Mrs. Jones in 704



For more information, see **Mrs. Jones** in Room 704

# Early Childhood Education

## Description:

- Project-Based Learning Course focusing on child development and practices for working with young children

## Skills/Interests:

- Teamwork
- Strong Work Ethic
- Communication Skills
- Organizational Skills
- Working with Children
- Project-Based Learning

## End of Pathway Assessment:

NOTI Early Childhood Education & CAre

## CTSO: FCCLA

## Careers:

- Teacher
- Preschool / Daycare Worker
- Counselor
- Child Life Specialist
- Social Worker

## Pathway Courses:

- Early Childhood Education I
- Early Childhood Education II
- Early Childhood Education III

## Lab Details:

Students in ECE II and ECE III have the opportunity to work with young children in Little Bears Preschool



If this pathway  
interests you, sign  
up for...  
**Early  
Childhood  
Education**

# Plant Science (Agriculture)

## Description:

Introduces the major areas of scientific agricultural production and research focused on plant & horticulture science. Builds introductory skills & knowledge in agricultural science and agri-related technologies.

## Skills/Interests:

- Agriculture
- Plant Science/Botany
- Hands-on learning
- Leadership
- Discipline
- Working with plants

## End of Pathway Assessment:

Horticulture NOCTI

## CTSO: FFA

### Careers:


- Environmental Scientist
- Hydrologist
- Landscape Architect
- Botanist
- Turf Management Specialist
- Biologist

### Pathway Courses:

1. Basic Agricultural Science
2. General Horticulture & Plant Science
3. Nursery & Landscape

## Lab Details:

Greenhouse work daily



If this pathway  
interests you, sign  
up for...

**BASIC AG**



# Food Animal Systems (Agriculture)

## Description:

Introduces the major areas of scientific agricultural production & research focused on the raising of agricultural livestock.

## Skills/Interests:

- Agriculture
- Farm Management
- Leadership
- Discipline
- Working with animals
- Teamwork

## End of Pathway Assessment:

Precision

CTSO: FFA

## Careers:

- Veterinarian
- Farm & Ranch Managers
- Animal Scientist
- Animal Trainers
- Biologists
- Zoologists

## Pathway Courses:

1. Basic Agricultural Science
2. Animal Science & Biotechnology
3. Agricultural Animal Production & Management

## Lab Details:

- Farm/Barn-daily (rain or shine)
- Work boots required

If this pathway  
interests you, sign  
up for...

**BASIC AG**

# Sports & Entertainment Marketing

## Description:

- Explore the value of marketing in everyday life
- Use marketing strategies and concepts to prepare yourself for ANY career
- Job experience in School Based Enterprise (SBE/school store)

## Skills/Interests:

- Sports and Entertainment
- Teamwork
- Initiative
- Strong Work Ethic
- Creativity
- Customer Service Mindset
- Project Based Learning



## End of Pathway Assessment:

MBA Research Standard Marketing Program of Study Exam (NOCTI)

CTSO:  **DECA**

## Careers:

- Sports Agent
- Social Media Manager
- Entrepreneur
- Public Relations
- Event Management
- Travel & Tourism Agent (Sales)

## Pathway Courses:

1. Marketing Principles
2. Intro to Sports & Entertainment Marketing
3. Advanced Sports & Entertainment Marketing



## Lab Details:

- 3rd & 4th year Marketing students work Bear Necessities (SBE/School Store)
- 2nd level and up participate in Fantasy Sports projects

If this pathway interests you, sign up for...

**MARKETING PRINCIPLES**

# Start-Up Entrepreneurship

## Description:

- Entrepreneurial Self Discovery
- Planning Your Future Business
- **Running your own business**

## Skills/Interests:

- Leadership
- Creativity
- Passion
- Financial Gain
- Communication
- Critical Thinking
- Adaptability
- Flexibility

End of Pathway: National Industry  
Credential Assessment

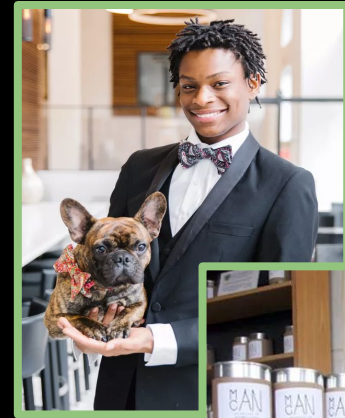
**CTSO:** Future Business  
Leaders of America

## Careers:

- CEO of Your Own Company
- Business Managers

## Pathway Courses:

1. Entrepreneurship Essentials (06.45100)
2. The Entrepreneurial Venture (06.45200)
3. Advanced Entrepreneurial Strategies (06.45300)



# Human Resources Management

## Description:

HIRED OR FIRED? Learn the hiring, managing, and firing functions of a job. Students also get an overview of business and technology skills required for today's business environment.

CTSO: **FBLA**

## Careers:

- ★ CEO (Chief Executive Officer)
- ★ Business Manager or Agent
- ★ Human Resources Manager
- ★ Business Analyst
- ★ Administrative Assistant

## Skills/Interests:

Microsoft Office  
Google Apps

## End of Pathway Assessment:

NOCTI Human Resources  
Management Exam

## Pathway Courses:

1. Intro to Business & Technology
2. Legal Environment of Business
3. Human Resources Principles



If this pathway  
interests you, sign  
up for...

**Introduction to  
Business &  
Technology**

# Web Development

## Description:

- Develop and design responsive websites through coding, testing, debugging, and implementation of web-based services

## Skills/Interests:

- Professional communication skills & practices
- Problem solving
- Presentation skills

## End of Pathway Assessment:

Web Development CIW - SDA

## CTSO:

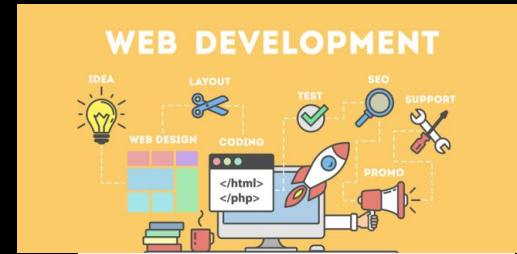
[Future Business Leaders of America](#)

## Careers:

- Web Developer
- UX Design
- Web Designer
- Cybersecurity

## Pathway Courses:

- Introduction to Software Technology
- Computer Science Principles
- Web Development



If this pathway  
interests you, sign  
up for...  
**Intro to  
Software  
Technology**