

Examples:

## Academy Structure and Pathway Programs of Study

### Grade 9 Structure:

#### FRESHMAN ACADEMY

- All ninth grade students are organized into three or four teams, each with their own identify and team of teaches.
- Together, teams participate in career-related activities such as college visits, career and technical high school visits, workplace tours, group learning activities and projects, community service, and friendly competition.

### Grades 10 through 12 Pathway and Program of Study Examples:

#### ACADEMY FOR ADVANCED TECHNOLOGIES

Pathway Programs of Study:

- Advanced Manufacturing, Machining, and Materials
- Architecture and Construction
- Automotive and Transportation Technologies
- Engineering and Design
- Information and Communications Technology
- Science and Math Careers

#### ACADEMY FOR ARTS, BUSINESS, AND COMMUNICATIONS

Pathway Programs of Study:

- Digital Media and Design
- Entrepreneurship and Business Leadership
- Business Finance
- Fine Arts Careers
- Journalism and New Media
- Music Performance and Production

#### ACADEMY FOR HEALTH, HUMAN SERVICES, AND PUBLIC SERVICE

Pathway Programs of Study:

- Health Care Careers

- Health Research
- Human and Family Services
- International and Public Leadership
- Law and Public Safety

## ACADEMY FOR ENTREPRENEURSHIP AND LEADERSHIP

Pathway Programs of Study:

- Information and Communications Technology
- Entrepreneurship and Business Leadership
- Business Finance
- Human and Family Services
- International and Public Leadership

PATHWAY PROGRAM OF STUDY EXAMPLE:

### **Entrepreneurship and Business Leadership Pathway**

This Program of Study provides students with meaningful instruction for and about business. The program encompasses business skills and techniques, an understanding of basic economics, and business attitudes essential to participate in the multinational marketplace as productive workers and consumers. EBL focuses on careers that plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources. There is also a strong component of business related technology applications and basic business finance. This program plays a major role in preparing a competent, business-literate, and skilled workforce.

**Core:**

- Introduction to Business and Entrepreneurialship
- Personal Finance
- Business Law
- Marketing

**Enrichment:**

- Digital Media
- Computer Applications
- Advertising Design
- Foreign Language

## ACADEMY FOR ARTS, BUSINESS, AND COMMUNICATIONS

Pathway Programs of Study:

- Business, Finance, and Marketing
- Digital Media and Design
- Entrepreneurship and Business Leadership
- Fine Arts and Enterprise
- Journalism and New Media
- Music Performance and Production

PATHWAY PROGRAM OF STUDY EXAMPLE:

**Digital Media and Design Pathway**

Workers in the Digital Media and Design pathway focus on the design and production of web, print, multimedia, and video products. Students develop knowledge and skills in photography, photographic manipulation, illustration, animation, typography, design and layout strategies, and color theory to plan, design, and produce materials such as logos, packaging, booklets, and business stationery. Digital design courses also include the study of fair use guidelines, ethics, past and present designers, and career opportunities.

**Core:**

- Desktop Publishing
- Adobe Illustrator
- Adobe Photoshop
- Digital Camera
- Advanced Adobe Photoshop
- Multi-media Web Design

**Enrichment:**

- Broadcasting
- Creative Writing
- 20<sup>th</sup> Century History through Film

## ACADEMY FOR ADVANCED TECHNOLOGIES

Pathway Programs of Study:

- Advanced Manufacturing, Machining, and Materials
- Architecture and Construction
- Automotive and Transportation Technologies
- Engineering and Design
- Information and Communications Technology
- Science and Math Careers

PATHWAY PROGRAM OF STUDY EXAMPLE:

**Engineering, Design and Manufacturing Pathway**

Engineers design, develop, and build machinery and complex systems used in the production of a large variety of consumer goods. This program is designed for the student interested in an engineering related field of study. Students explore the design process, research and analysis, teamwork, various communication methods, engineering standards, and technical documentation. Through hands-on projects, students apply engineering standards while documenting their work in design. Students use industry standard 3D modeling software to help design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community

**Core:**

- Introduction to Drafting, Design and CAD
- Engineering Graphics 1
- Introduction to Prototyping
- Prototyping

**Enrichment:**

- Engineering Graphics II
- Advanced Prototyping
- Electronics (mechatronics)
- Robotics (mechatronics)
- Automated Manufacturing (mechatronics)
- Introduction to Business and Entrepreneurship
- Marketing

## **ACADEMY FOR HEALTH, HUMAN SERVICES, AND PUBLIC SERVICE**

Pathway Programs of Study:

- Health Care Careers
- Health Research
- Human and Family Services
- International and Public Leadership
- Law and Public Safety

PATHWAY PROGRAM OF STUDY EXAMPLE:

### **The Human, Family, and Personal Service Pathway**

This pathway prepares individuals for employment in careers that relate to family and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

**Core:**

- Child Care and Development I
- Child Care II
- Health
- Wellness I
- Food for Today

**Enrichment:**

- Psychology
- Sociology
- Comparative Religions