

FREEPORT HIGH SCHOOL

PATHWAYS
SUPPLEMENTAL
BROCHURE

*“Tomorrow’s Leaders
Learning Today”*



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Assistant Principal	Michael Campiglia	867-5379
Assistant Principal	Wendy Haise	867-5310
Assistant Principal	Maribel Maia	867-5348
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FREEPORT HIGH SCHOOL

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Seth Patton Nurse

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A - Li	Blanca Tapia ext. 4227
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INTRODUCTION AND DEFINITIONS

Freeport High School uses the following nationally recognized terms to help guide students through the selection of coursework and to support their decision-making in preparation for their postsecondary goals.

Career Cluster: Group of occupations and industries that have a set of foundational knowledge and skills in common. There are 16 nationally recognized career clusters which each contain multiple career pathways.

Career Pathway: Multiyear program of academic and technical study that prepares students for a full range of postsecondary options within each career cluster. Career pathways provide a context for exploring career options at all levels of education. Career pathways link student learning to the knowledge and skills needed for future education and employment.

Program of Study: Sequence of courses and experiences which include core academic, career and technical education content. Programs of study include opportunities to earn college credit and industry-recognized credentials or certificates and gain external career experiences while in high school. Programs of study also may lead to a student earning a college degree.

Within each Freeport High School Program of Study the following terms are used to describe coursework and opportunities which align with that career area.

Pathway Courses: recommended sequence of courses which provide students opportunities to explore and develop skills within a specified career area.

Related Electives: courses which provide students additional opportunities within the specified career area or opportunities to develop skills and knowledge in a closely related career area.

Dual Enrollment Credit: allows Freeport High School students an opportunity to enroll in postsecondary courses and receive both high school and postsecondary credit.

Career-Related Activities: opportunities for student career exploration and/or career skill development which may include the involvement of industry partners. These opportunities are generally less formal and/or intensive than external experiences in the areas of career exploration and/or career skill development.

Certifications: credentials awarded to students by an independent third party verifying qualifications or competencies in a career skill area. Industry-recognized certifications are sought or accepted by employers as recognized, preferred or required credentials for recruitment, screening, hiring, retention or advancement purposes of their employees.

College Majors: College majors are concentrations of educational study focused on a career area. College majors can lead to an associate's, bachelor's, master's or doctoral degree. In this document, a sample of majors related to each program of study is listed.

Careers: Careers are occupations which usually require special training or formal education. In this document, a sample of careers related to each program of study is listed.

FREEPORT HIGH SCHOOL

TOMORROW'S LEADERS LEARNING TODAY

MISSION The primary purpose of our school system is to teach all children how to learn and to foster in each child the desire for lifelong learning. We are committed to providing the means for intellectual, emotional, ethical, social and physical growth for cultural and ethnic diversity, which will assist every individual in becoming an informed and productive participant in our democratic society.

VALUES

1. HONESTY/INTEGRITY:

- To be truthful, to distinguish between right and wrong, and to choose to do what is right.

2. RESPECT:

- To show regard for self, others, the environment, property and government laws.

3. COURTESY:

- To display appropriate behavior that shows consideration for others.

4. SELF-DISCIPLINE:

- To display effective and appropriate control of oneself and one's conduct and persevere in the pursuit of self-improvement.

5. COMPASSION:

- To be sympathetic and understanding of the needs and feelings of others – the ability and desire to care.

6. TOLERANCE:

- To have a fair and objective attitude toward those whose ideas, race or creed is different from our own.

7. LOVE OF LEARNING:

- To have intellectual curiosity.

8. RESPECT FOR EDUCATION:

- To have regard for the worth of the learning environment and the resources needed to develop each human being to his/her potential.

9. RESPONSIBILITY:

- To demonstrate personal accountability and work to the best of one's ability; to respond to the needs of others.

10. SERVICE:

- To provide service to the community.

A MESSAGE FROM YOUR SUPERINTENDENT

Dear Freeport High School Student:

On behalf of the faculty, staff and administration of Freeport High School, congratulations on starting your Pathway toward career success. Throughout your time as a Freeport student, you will be engaged in and participate in many experiences and opportunities which will simultaneously prepare you to graduate high school, be successful in college or postsecondary training and to attain employment in a career field which matches your strengths, abilities and aspirations.

Looking at high school as a time in your life when you take classes with an end goal of a diploma is a thing of the past; instead, Freeport High School is the beginning of your Pathway to all you dream of and hope to achieve. Through career exploration and research, you will identify your interests. Matching these interests with your schedule of required and elective courses, you will take classes which have meaning and value to you as a learner. Within these classes, you will explore careers which allow you to take your interests and strengths into the workforce and the many employment opportunities within that field. You will learn of the training and education which will allow you access to each level of that career field, from entry level with a diploma to top-level positions requiring advanced training and higher education.

Within your selected Pathway of study, you will be part of experiences that deepen your understanding of related career fields. Engaging with prospective employers and successful employees, visiting sites which align with career fields, and participating in distance-learning activities to further enhance your understanding of potential career fields, will all be part of your Pathway experience.

Connecting with institutes of higher education which can continue your education within your selected Pathway will be common throughout your time at Freeport High School. Whether it is through enrollment in one of over 20 dual enrollment courses, Advanced Placement courses, college-credit grant programs, or through campus tours and fairs, college will not be a foreign and frightening place come graduation. Our hope is that you will accumulate up to 24 college credits, almost a full year, even before you earn your diploma from Freeport High School.

Taking advantage of the countless professionals invested in your success and your future throughout your time at Freeport High School is a choice you alone must make. We are all there to support you, but you must take the first step. Imagine yourself on stage at graduation, knowing the exact steps you need to follow after high school to reach the goals in life you have imagined for the past four, five, possibly even 10 or more years. This is no longer a thing of dreams; at Freeport High School, this is now your reality. Carefully and consciously navigating your Pathway is how you achieve it. We will all meet you at the door to assist you along on the journey.

Welcome to Freeport High School, the Pathway to your success.

Dr. Kishore Kuncham

Superintendent of Schools

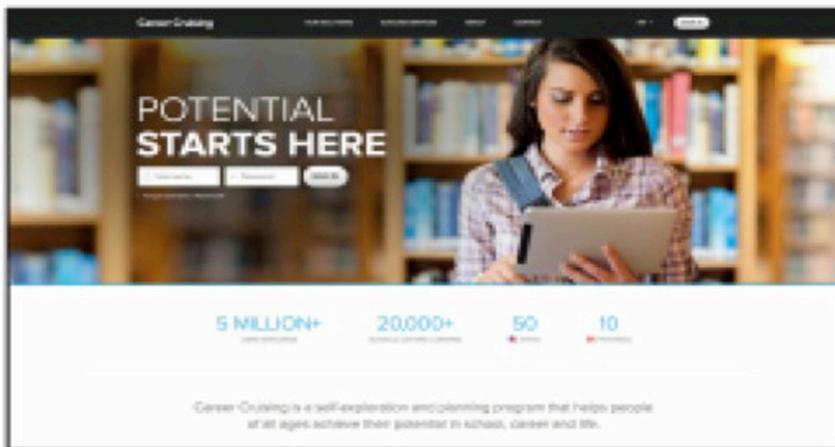
THE PURPOSE OF A PATHWAYS MODEL

Your guidance counselor will be your Pathways guide throughout your time at Freeport High School. In addition to the required courses you will take, you will have the opportunity to select elective courses which align to your identified interests, strengths and potential career path.

In your ninth-grade year, you will partake in a career exploration experience which will allow you to discover which career fields and jobs your interests and strengths would fit well within. You will have the opportunity to research jobs and career fields of your choosing, as well as engage in many lessons in each of your courses focused on career exploration. You will also attend freshman seminars designed to increase your awareness of postsecondary and employment options and requirements, hear from community members as they discuss how they arrived at their respective career levels and dialogue with local employers to hear what they look for in their future workforce. When it comes time for you to schedule your classes for your 10th-grade year, you will be prepared to identify a pathway of interest which will influence your future decisions at Freeport High School.

As a 10th-, 11th-, and 12th-grader, you will have a direction and purpose to selecting the courses you enroll in, the extracurricular activities and clubs you participate in, and have many opportunities to prepare yourself for the college coursework and career field you plan to pursue after graduation.

Helpful Internet Tools for Finding a Career Pathway



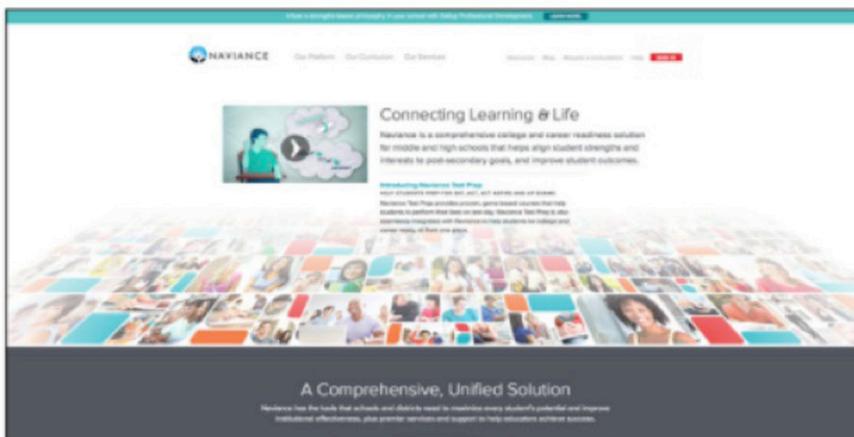
www.careercruising.com

Career Cruising is an internet-based career exploration and planning tool used by students to explore career and college options and develop a career plan. Features of the program include: Assessments, Career Profiles, Multimedia Interviews and College/University and Apprenticeship Information.

HOW TO USE THE FREEPORT HIGH SCHOOL PATHWAYS SUPPLEMENTAL CATALOG

The Pathways Supplemental Catalog should be used alongside the Freeport High School Program Offerings catalog when planning your schedule each year. As you have the opportunity to plan your schedule, consider the career fields your Holland Code assessment indicated fit your strengths and interests, and discuss the elective options with your guidance counselor. Also in the catalog are extracurricular activities which align to those pathways to further enhance your experiences within that pathway. Together with the course catalog, you will be able to design a sequence of study that meets your needs and goals as a Freeport High School student, future collegian and future member of the work force.

You will also find “career guides” which showcase some of the in-demand career professions within each pathway. These guides identify the education and training required for various levels within that profession, and the starting salaries one can expect based on those levels. They also highlight the FHS courses and clubs most aligned to those careers.



www.naviance.com

Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. It also allows students to create a plan for their futures by helping them discover their individual strengths and learning styles and explore college and career options based on their results.

Student can set up their own Career Cruising and Naviance accounts. Please see your counselor or career advisor for more information.

RECOMMENDED PROGRAM FOR COLLEGE AND CAREER SUCCESS

9th GRADE	10th GRADE	11th GRADE	12th GRADE
English 9 H/R	English 10 H/R	English 11 R/H AP English Language	English 12 AP English Literature Survey Western World Literature
Global History 9R World History 9H	Global History 10R AP World History AP Human Geography	US History R/H AP US History AP Capstone Seminar AP Psychology AP European History AP Human Geography	Participation in Government Economics H/R AP American Government AP Psychology AP Comparative Government
CC Algebra CC Geometry H/R Algebra II H/R CC	CC Geometry H/R CC Algebra II H/R Pre-Calculus Calculus AP Computer Science Principles	CC Algebra II H/R Pre-Calculus AP Calculus A/B AP Statistics AP Computer Science Principles	Pre-Calculus Calculus AP Calculus A/B AP Calculus B/C AP Statistics
Living Environment Regents Living Environment Honors	Earth Science R Chemistry Honors	Chemistry R AP Environmental Science AP Biology AP Chemistry AP Physics	Physics R AP Biology AP Chemistry AP Physics AP Physics C AP Environmental Science
Foreign Lang 2R/H	Foreign Lang 3R/H	Foreign Lang 4R/H AP Spanish Language AP French Language	Foreign Lang 5R AP Spanish Language AP Spanish Literature AP French Language
Studio Art Creative Crafts Advertising & Media 1 Beginner Fashion Music in Our Lives Chorus Band Freshmen Orchestra	Studio Art Drawing & Painting Creative Crafts Advertising & Media 1 Beginner Fashion Music in Our Lives Chorus Band Orchestra AP Art History	Health Elective AP Music Theory Honors by Audition: Wind Ensemble, Sinfonietta, Select Chorale Drawing and Painting Advertising & Media 2 Intermediate Fashion AP Art History	Elective AP Art History AP Music Theory Honors by Audition: Wind Ensemble, Sinfonietta, Select Chorale Advanced Drawing and Painting H Portfolio Prep H Advanced Fashion
Writers' Workshop	Elective	Elective	Elective
P.E.	P.E.	P.E.	P.E.

RECOMMENDED PROGRAM FOR COLLEGE AND CAREER SUCCESS

COURSE LEVELS

AP - Advanced Placement – Advanced Placement courses are designed with a specific focus on a college level approach to content, culminating in the Advanced Placement exam. AP courses specifically challenge high school students to become college students; mastery of curriculum and development of critical thinking skills enable learners to become truly articulate in a specific subject and to successfully take the Advanced Placement exam and, ultimately receive college credit.

DE- Dual Enrollment –allows high school students an opportunity to enroll in postsecondary courses and receive both high school and postsecondary credit.

H - Honors – Honor level courses are designed to enrich the student by offering an enhanced curriculum in each subject area, with particular attention to developing higher order thinking skills and sophisticated understanding of course material. They invite not only knowledge, but also insight and expertise for students accepting the challenge of the Honors curriculum.

R - Regents – core high school subjects required for a Regents Diploma to graduate.

**Course offerings may be subject to change based on the discretion of Freeport Public Schools. It may not be possible to offer all of the courses listed if student enrollment is too low to run a course or due to financial considerations.*

English Electives

Creative Writing 1 and 2	Introduction to Theatre Arts
Journalism 1 and 2	
English SAT	

Social Studies Electives

AP Human Geography	Capstone Research
AP Comparative Government and Politics	Advanced Placement Psychology
Human Relations	Criminal and Civil Justice
Psychology	History Through Music
Advanced Placement European History	History Through Film
Advanced Placement Capstone Seminar	Sociology
Advanced Placement	Genocide
	Gender Relations

Science Electives

Forensics	Oceanography
Marine Biology	Science Research

Math Electives

Business Math	Math SAT
AP Computer Science Principles	Advanced Placement Statistics
Contemporary Math	



Accounting

Accounting is the process of recording financial transactions pertaining to a business.

The accounting process includes summarizing, analyzing and reporting these transactions to oversight agencies, regulators and tax collection entities.

ACCOUNTING

Accounting

Pathway Courses

Year 1 • Computerized Keyboarding/Career and Financial Management

Year 2 • Virtual Enterprise

Year 3 • Accounting 1

Year 4 • Accounting 2/Computer Applications for College/Research and the Workplace

Related Electives

Business and Personal Law

AP Calculus AB

AP Calculus BC

AP Statistics

AP Computer Science Principles

Career Related Activities

Distributive Education Clubs of America (DECA)

Future Problem Solvers

Odyssey of the Mind

Student Government

Dual Enrollment Credit

Business Law

Accounting

Certifications

Certified Public Accountant (CPA)

Certified Financial Analyst (CFA)

Certified Management Accountant (CMA)

Enrolled Agent (EA)

Certified Financial Services Auditor (CFSA)

Certified Internal Auditor (CIA)

Certified Fraud Examiner (CFE)

Certified Information Systems Auditor (CISA)

College Majors

Accounting

Accounting Technology/Technician and Bookkeeping

Finance

Business Management

Auditing

Economics

Careers

Certified Public Accountant

Forensic Accounting

Public Accounting

Management Accounting

Financial Accounting

Government Accounting

Auditing

Accounting Manager

Bookkeeper

Budget Analysis

Compliance Officer

Financial Analyst

Financial Planner

Tax Accountant

Payroll Accountant

Requirements for CTE Endorsement:

- The Microsoft Office Specialist exams in Word, PowerPoint, and Excel were chosen as the written and performance assessment
- Locally Created Portfolio
- Work Based Learning Experiences such as; Field Trips, Site Visits, Internships, Apprentice Opportunities, Job Shadowing and Employment Opportunities



Agriculture, Food and Natural Resources

The production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture and other plant and animal products/resources.

Pathways/Programs of Study

- Environmental Science Systems
- Green

AGRICULTURE, FOOD AND NATURAL RESOURCES

Environmental Science System

Pathway Courses

Year 1 - Living Environment

Year 2 - Chemistry

Year 3 - Physics

Year 4 - AP Environmental Science

Related Electives

AP Statistics
AP Biology
AP Chemistry
AP Physics
AP Physics C
Authentic Science Research
Forensics
Virtual Enterprise

Career Related Activities

Health Occupation (HOSA)
Science Olympiad
WFHS Communications
AIDS Awareness Group
High School Heroes

Dual Enrollment Credit

Virtual Enterprise

College Majors

Environmental Control Technologies/Technicians
Environmental Engineering Technology/ Environmental Technology
Natural
Hazardous Materials Management
Water Quality and Wastewater Treatment Management and Recycling
Technology/Technician

Careers

Environmental Engineering Technician
Hazardous Materials Removal Worker
Occupational Health and Safety Specialist
Refrigeration Mechanic and Installer
Arborist
Environmental Specialist
Restoration Specialist
System Ecologist
Wildlife Manager
Water and Wastewater Treatment Plant and System Operator

AGRICULTURE, FOOD AND NATURAL RESOURCES

Green

Pathway Courses

Year 1 • Living Environment

Year 2 • Earth Science

Year 3 • Chemistry

Year 4 • AP Environmental Science

Related Electives

AP Calculus AB
AP Calculus BC
AP Biology
AP Chemistry
AP Physics
AP Physics C
AP Statistics
Virtual Enterprise

Career Related Activities

DECA
Flashings
Mock Trial
Robotics
Science Club/Science Olympiad
Student Government
High School Heroes

Dual Enrollment Credit

Virtual Enterprise

Certifications

Food Handler
National Restaurant Association ProStart
Certificate of Achievement

College Majors

Agricultural and Food Products Processing
Agricultural Business and Management
Agricultural Business Technology
Agricultural/Farm Supplies Retailing and Wholesaling
Food Science
Food Technology and Processing

Careers

Agricultural and Food Science Technician
Agricultural Technician
Robotics Technicians
Industrial Engineering Technologists
Investment Underwriters
Regulatory Affairs Specialists
Solar Energy Installation Managers
Energy Auditors
Environmental Restoration Planners
Logistics Engineers
Transportation Planners
Geospatial Information Scientists
Commodities Traders
Solar Sales Representatives
Transportation Engineers
Fuel Cell Engineers
Water Engineers
Remote Sensing Scientists
Logistics Managers
Energy Managers
Environmental Economists
Green Marketers
Wind Energy Project Managers
Gas Collection System Operators
Water Resource Specialists
Biofuels Product Development Managers
Chief Sustainability Officers
Chemical Technician
Food Science Technicians or Technologist
Farm and Ranch Manager

ARCHITECTURE AND CONSTRUCTION

Construction

Building Trades

Pathway Courses

Year 1 ▪ Production Systems
Computer Aided Design (CAD)

Year 2 ▪ Design and Drawing for Production

Year 3 ▪ Electrical Engineering

Year 4 ▪ Industrial Drafting

Related Electives

Basic Electronics
Production Systems
Computer Graphics
Video Game Design
Industrial Drafting 1-3
Photo 1
Digital Photography
Auto Mechanics 1 and 2
Animation
Fundamentals of Technology
Technological Design
Landscape Design/Drafting

Career Related Activities

Stage Crew
Graphic Design
Robotics
Skills USA

Dual Enrollment Credit

Photo 1
Digital Photography
Animation
Auto Mechanics 1
Auto Mechanics 2

Certifications

WCA Machine Operation Level I: Table Saw
WCA Machine Operation Level I: Band Saw
WCA Machine Operation Level I: Lathe
WCA Machine Operation Level I: Jointer
WCA Machine Operation Level I: Radial Arm Saw
WCA Machine Operation Level I: Planer
WCA Machine Operation Level I: Drill Press
WCA Machine Operation Level I: CNC Router

College Majors

Building/Construction Management
Construction Engineering Technology
Energy Management and Systems Technology
Heating, Air Conditioning and Refrigeration Technology

Careers

Architectural Engineering Technician
Building/Construction Finishing, Management and Inspection
Civil Engineering Technology/Technician
Construction Engineering Technology/Technician
Drafting CAD/CADD
Electrician
Heating, Air Conditioning, Ventilation and Refrigeration
Maintenance Technician
Carpenter
Plumber

ARCHITECTURE AND CONSTRUCTION

Design/Preconstruction

Architecture

Pathway Courses

Year 1 ▪ Design and Drawing for Production/Fundamentals of Technology (FOT)

Year 2 ▪ Industrial Drafting 1/ Technological Design

Year 3 ▪ Industrial Drafting 2/ Computer Aided Design (CAD)

Year 4 ▪ Industrial Drafting 3

Related Electives

Basic Electronics
Production Systems
Computer Graphics
Video Game Design
Industrial Drafting 1-3
Photo 1
Digital Photography
Auto Mechanics 1 and 2
Animation
Landscape Design/Drafting
Electrical Engineering

Career Related Activities

Stage Crew
Graphic Design
Robotics
Skills USA

Dual Enrollment Credit

Photo 1
Digital Photography
Animation
Auto Mechanic 1
Auto Mechanic 2

Certifications

AutoCAD Designer
Revit Architectural Designer

College Majors

Architectural Drafting
Architectural Engineering
Architecture
CAD/CADD Drafting Technician
Civil Drafting and Civil Engineering
Drafting/Design Engineering Technicians
Electrical/Electronic Drafting
Electrical/Electronic CAD/CADD
Environmental Design/Architecture
Mechanical Drafting CAD/CADD

Careers

Architects
Civil Draftsman
Civil Engineering Technician
Electrical and Electronics Draftsman
Engineering Technician
Interior Designer
Landscape Architect
Mechanical Draftsman
Operations Research Analyst



Drafting and Design Technology/Technician

Drafting and Design Technology is an instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating of data or specifications including basic aspects of planning, preparing and interpreting mechanical, architectural, structural, civil, electrical/electronic, topographical and other drawings and sketches used in various engineering fields.

DRAFTING AND DESIGN TECHNOLOGY/TECHNICIAN

This program allows for a Career and Technical Endorsement and Dual Enrollment credit.

Drafting and Design Technology/ Technician

Pathway Courses

Year 1 • Career and Financial Management

Year 2 • Design and Drawing

Year 3 • Technical Drafting/Computer Aided Design
(CAD)

Year 4 • Industrial Drafting 1

Related Electives

Industrial Drafting 2
Industrial Drafting 3
Introduction to Computer Graphics
Production Systems
Landscape Design/Drafting

Career Related Activities

Robotics
Skills USA

Dual Enrollment Credit

Introduction to Computer Graphics
Photo 1
Digital Photography
Animation

Certifications

Apprentice: Architectural & Mechanical
Certified Drafter
Certified Design Drafter
Certified Digital Designer
CAD Drafting
Design Drafting

College Majors

Architecture
Civil Engineering
Construction Technology
Engineering Technology
Industrial and Product Design
Mechanical Engineering
Surveying
Drafting Technology
Landscape Design

Careers

Architects
Civil Engineering Technicians
Electrical and Electronics Engineering
Technicians
Electrical and Electronics Engineers
Industrial Designers
Landscape Architects
Mechanical Engineering Technicians
Mechanical Engineers

Requirements for CTE Endorsement:

- Required Exams: NOCTI 4983 CAD Assessment
- Locally Created Portfolio
- Internships and Job Shadowing Experiences



Arts, A/V Technology and Communications

Designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

Pathways/Programs of Study

- English Language Arts
- Visual Arts: Digital Art
- Visual Arts: STEAM
- Performing Arts: Band
- Performing Arts: Choir
- Performing Arts: Orchestra

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

English Language Arts

Technical and Business Writing

Pathway Courses

Year 1 • English 9

Year 2 • English 10

Year 3 • English 11/AP English Language

Year 4 • English 12/AP English Literature

Related Electives

Creative Writing I

Creative Writing II

Journalism I

Journalism II

Survey of Western Literature

Career Related Activities

DECA

Flashings

Graphic Designs

Vintage

High School Heroes

Homework Helpers

Chapter Chats Book Club

Mock Trial

Peer Tutor

College Majors

English

Journalism

Communications

Graphic Communications

Graphic Arts

Graphic Design

Careers

Desktop Publishers

Copywriters (Writers and Authors)

Technical Writers

Journalist

Science Writer

Grant Writer

Teacher

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Visual Art

Digital Art

Pathway Courses

Year 1 • Advertising Design 1

Year 2 • Advertising Design 2

Year 3 • Computer Graphics

Year 4 • Portfolio in Art

Related Electives

Studio in Art

Drawing and Painting

Advanced Drawing and Painting

AP Art History

Web Page Design

Animation

Computer Applications for College and

Workplace

Photo 1

Digital Photography

Career Related Activities

Art/Fashion

Graphic Designs

Stage Crew

WFHS Communications

Theatre Set Design

Dual Enrollment Credit

Animation

Photo 1

Digital Photography

Careers

Educator

Art Director

Artist: Fine Artists, Illustrator, Packaging Designer

Photographer: Digital, Still, Video, Film

Computer Animator

Curator and Gallery Manager

Desktop Publishing Specialists

Graphic Equipment Operator

Web Page Designer

Interior Designer

Special Effects Artist

College Majors

Art Education

Fine Arts

Graphic Design

Web Design

Photography

Animation

Video Arts

Game Design

Toy Design

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Visual Art-STEAM

Pathway Courses

Year 1 - Studio in Art

Year 2 - Drawing and Painting

Year 3 - Advanced Drawing and Painting

Year 4 - Portfolio in Art

Related Electives

Creative Crafts
Photo 1
Digital Photography
Web Page Design
Fundamentals of Technology
Technological Design
Industrial Drafting 1, 2 and 3
Web Page Design
Animation
Advertising Design 1 and 2
Fashion Designer: Beginner, Intermediate and Advanced
Principles of Cartooning and Graphic Novel

Career Related Activities

Robotics
Stage Crew
WFHS Communications
Graphic Designs
Art/Fashion

Graphic Communication
Graphic Design
Human-Centered Design and Engineering
New Media and Digital Design
Packaging Design
Robotics Engineering
Toy Design
Video Arts
Web Design
Youth and Social Innovation
Animation

Electronic Business Marketer
Energy and Environmental Engineer
Fashion Designer
Game Designer
Graphic Designer
Graphic Equipment Operator
Industrial Design
Interaction Designers
Interior Designers
Materials Engineer
Product and Packaging Designer
Robotics Engineer
Set Designer
Social Media Manager
Sound Engineer
Special Effects Artist
Unmanned Systems Aircraft Systems Operator
User Experience Designers and Specialist
Wind and Energy Engineer

Dual Enrollment Credit

Animation
Photo 1
Digital Photography

Careers

College Majors

Agriculture and Life Sciences
Arts and Communication/Social Media
Fashion Design
Biometric Systems
Business+Marketing+Infosystems
Comedic Arts
Data Science
Electronic Business Marketing
Game Design

Application Software
Architectural and Civil Drafters
Biochemical Engineer
Camera/Video Operator
Computer Animator
Curator
Computer Hardware Engineer
Data Scientist
Desktop Publishing Specialist
Developers
Digital Designer

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Performing Arts

Band

Pathway Courses

Year 1 • Concert Band

Year 2 • Concert Band/Wind Ensemble

Year 3 • Concert Band/Wind Ensemble

Year 4 • Concert Band/Wind Ensemble

Related Electives

AP Music Theory

History of Music

Music in Our Lives

Orchestra/Sinfonietta

Career Related Activities

Musical Productions

Jazz Band

Music Festival

Marching Band

Color Guard

Pep Band

Small Ensembles

Saxophone Quartet

Brass Ensemble

Percussion Ensemble

Pit Orchestra

Small Ensemble

Summer Music Camps

All-County

All-State

All-Eastern

All-National

New York State School Music Association (NYSSMA)

Tri-M

Talent Shows

College Majors

Conducting

Instrumental Performance Jazz

Music

Music Composition

Music Education

Music Therapy

Music Theory

Studio Production

Careers

Composer

Conductor

Manager: Digital, Video and Stage

Musician

Music Instructor

Performer

Performing Arts Educator

Sound Designer

Sound Engineer

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Performing Arts Choir

Pathway Courses

Year 1 • Concert Chorus

Year 2 • Concert Chorus/Mixed Chorus/Select Choral

Year 3 • Mixed Chorus/Select Chorale

Year 4 • Mixed Chorus/Select Chorale

Related Electives

AP Music Theory
History of Music
Music in Our Lives
Orchestra/Sinfonietta
Band/Wind Ensemble
History of Music

Career Related Activities

Conducting, Directing, Composing
Jazz Band
Jazz Band Vocalist
Musical Theater
Small Ensembles
Ninth-Grade Select Chorus
Choral Festivals and Competitions
Music in the Parks
Thrills and Thrills
Summer Music Camps
All-County
All-State
All-Eastern
All-National
New York State School Music Association (NYMSSA)
Tri-M
Talent Shows
Brass Ensemble
Marching Band
Color Guard

College Majors

Conducting
Instrumental Performance
Jazz
Music
Music Composition
Music Education
Music Therapy
Music Theory
Studio Production
Ethnomusicology

Careers

Composer
Conductor
Manager: Digital, Video and Stage
Musician
Music Instructor
Performer
Performing Arts Educator
Sound Designer

ARTS, AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

Performing Arts

Orchestra

Pathway Courses

Year 1 • Freshmen Orchestra

Year 2 • Orchestra/Sinfonietta

Year 3 • Orchestra/Sinfonietta

Year 4 • Orchestra/Sinfonietta

Related Electives

AP Music Theory

History of Music

Music in Our Lives

Band/Wind Ensemble

Career Related Activities

Conducting, Directing, Composing

Musical Productions

Festival Soloist

Symphonic Orchestra

All-County

All-State

All-Eastern

All-National

LISFA Festivals

New York State School Music Association (NYMSSA)

Pit Orchestra

Small Ensembles

String Ensembles

Summer Music Camps

Tri-M

Solo and Ensemble

College Majors

Conducting

Instrumental Performance Jazz

Music

Music Composition

Music Education

Music Theory

Music Therapy

Careers

Composer

Conductor

Manager: Digital, Video and Stage

Musician

Music Instructor

Performer

Performing Arts Educator

Sound Designer

Studio Production

Ethnomusicology

EARN COLLEGE CREDIT



*While Attending
Freeport High School*



Freeport High School and SUNY Farmingdale State College **Dual Enrollment Program**

Dual Enrollment is offered to students through a partnership between Freeport High School and SUNY Farmingdale. This program gives students the opportunity to gain college credit while attending Freeport High School. The students must maintain an average of 80 percent to receive college credit. Teachers have been vetted by SUNY Farmingdale to teach the course.

DUAL ENROLLMENT COURSE OFFERINGS

Global 9 Regents	Genocide
Global 9 Honors	History Through Graphic Novels
World History 9 Honors	Gender Relations
Global 10 Regents	Sociology (offered in the Spring this year)
Global 10 Honors	Photo 1
AP World History	Digital Photography
U.S. History Regents	Accounting
United States History 11 Honors	Virtual Enterprise
AP U.S. History	Computer Design
Participation in Government	Business Law
AP Government	Animation
Economics Regents	Auto Mechanics 1
Economics Honors	Auto Mechanics 2
History Through Film	

SUMMER COURSE OFFERINGS

Freshmen Experience
Sociology
Public Policy
Comparative Religions
The Renaissance

Business Administrative Studies

Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Pathways/Programs of Study

- Business Management and Administration

BUSINESS ADMINISTRATIVE STUDIES

Business Administrative Studies

This program allows for a Career and Technical Endorsement and Dual Enrollment credit.

Pathway Courses

Year 1 • Computerized Keyboarding

Year 2 • Career and Financial Management

Year 3 • Virtual Enterprise

Year 4 • Computer Applications for College/Research and the Workplace

Related Electives

Sports and Entertainment Marketing
Business and Personal Law
Accounting 1 & 2
Hotel and Restaurant Management
Web Page Design
Entrepreneurship
Desktop Publishing
AP Calculus AB
AP Calculus BC
AP Statistics

Career Related Activities

Distributive Education Clubs of America (DECA)
Art/Fashion Club
Graphic Designs
High School Heroes
Student Council

Dual Enrollment Credit

Accounting
Virtual Enterprise
Business Law

Certifications

Administrative Assistant/Business Software Specialist
Advanced Management
Business Analyst
Computers in Business
Conversational Spanish
Electronic Bookkeeping
Fundraising for Nonprofits
General Management
Human Resource Management
International Business

Lean Six Sigma Green Belt
MCSE: SQL Business Intelligence
Meeting and Event Planning
Office Administrator
Professional Communication
Project Management Specialist
Small Business Management
Social Media for Business
Supervisory and Leadership
Supervisory Skills I and II

College Majors

Accounting
Business Administration and Management
Business Management/Economics
Entrepreneurial and Small Business Operations
Human Resources Management
Logistics
Management Information Systems
Management and Supervision
Public Relations/Advertising/ Applied Communications

Careers

Accountant and Auditor
Advertising Manager
Computer and Information System Manager
Financial Analyst
Human Resource Specialist
Logistician
Market Research Analyst
Market Research Specialist
Operations Research Analyst
Sales Manager
Tax Preparer
Treasurer and Controller

Requirements for CTE Endorsement:

- The Microsoft Office Specialist exams in Word PowerPoint, and Excel were chosen as the written and performance assessment
- Locally Created Portfolio
- Work Based Learning Experiences such as; Field Trips, Site Visits, Internships, Apprentice Opportunities, Job Shadowing and Employment Opportunities

Education and Training

Planning, managing and providing education and training services and related learning support services.

Pathways/Programs of Study

- Teaching/Training: Early Childhood Education
- Teaching/Training: Primary Education
- Teaching/Training: Secondary Education

EDUCATION AND TRAINING

Teaching/Training

Pathway Courses

Year 1 • English 9

Year 2 • English 10

Year 3 • English 11/AP Language

Year 4 • English 12/ AP Literature

Related Electives

AP Psychology

Intro to Theatre Arts

Creative Writing I

Creative Writing II

World Language

Career Related Activities

Peer Leaders

Computer Applications

Peer Tutor

Robotics

Science Club

High School Heroes

Homework Helpers

Peer Buddies

Student Technology Aid

Student Council

Certifications

Teacher Assistant

Library Assistant

Substitute Teacher

College Majors

Childhood and Early Childhood

Education

ESL Education

Special Education

Library Science

Careers

Pre-School Teacher

School Teacher

Childcare Center Director

Home-Based Service Provider

Family Support Specialist

Consultant

Intervention Specialist

Finance

Planning, services for financial and investment planning, banking, insurance and business financial management.

Pathways/Programs of Study

- Finance

FINANCE

Finance

Pathway Courses

Year 1 • Computerized Keyboarding

Year 2 • Career and Financial Management/Web Page Design

Year 3 • Virtual Enterprise/ Accounting 1

Year 4 • Business and Personal Law/ Accounting 2

Related Electives

Sports and Entertainment Marketing

Hotel and Restaurant Management

AP Calculus AB

AP Calculus BC

AP Computer Science

AP Statistics

Career Related Activities

DECA

Art/Fashion Club

Graphic Designs

High School Heroes

Stock Market Game

Dual Enrollment Credit

Accounting

Virtual Enterprise

Business Law

Certifications

Electronic Bookkeeping

Financial Management

MCSE: SQL Business Intelligence

College Majors

Actuarial Science

Banking and Financial Support Services

Business and Personal/Financial Services

Marketing Operations

Credit Management

Financial Planning Services

Insurance

International Finance

Investments and Securities

Careers

Actuary

Budget Analyst

Credit Analyst

Financial Service

Insurance Appraiser

Insurance Underwriter

Loan Officer

Sales Agent

Securities and Commodities

Telemarketer

Teller

Treasurer and Controller

Governance and Public Management Administration

Planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation and regulations.

Pathways/Programs of Study

- Governance, Public Management and Administration
- Law
- Foreign Service



GOVERNANCE AND PUBLIC ADMINISTRATION

Governance and Public Administration

Pathway Courses

Year 1 - Global History 9/World History 9H

Year 2 - Global History 10/AP
World History

Year 3 - U.S. History/ AP United States History

Year 4 - Participation in Government/Economics/
AP Government

Related Electives

AP Psychology
Naval Science (NJROTC)
AP Capstone Seminar
AP Capstone Research
Criminal and Civil Justice

Career Related Activities

Student Government
Interact/Rotary Club
International Ambassadors
German Exchange
Mock Trial
Peer Leaders

Dual Enrollment Credit

World History 9 Honors
AP U.S. History
AP Government
AP World History
AP Capstone Seminar

Certificates

Conversational Spanish
Public Relations

College Majors

American Government and Politics
Political Science and Government
Public Administration
Public Policy Analysis
Urban Studies
History

Careers

Administrative Services Manager
Emergency Management Director
Legislator
Political Scientist
Reporters
Lawyer
Paralegal

GOVERNANCE AND PUBLIC ADMINISTRATION

Law

Pathway Courses

Year 1 • Global History 9/World History 9H

Year 2 • Global History 10/AP
World History

Year 3 • U.S. History/ AP United States History

Year 4 • Participation in Government/Economics/
AP Government

Career Related Activities

Student Government
Interact/Rotary Club
International Ambassadors
German Exchange
Mock Trial
Peer Leaders

Dual Enrollment Credit

World History 9
AP U.S. History
AP Government
AP World History
AP Capstone Seminar

Certificates

Conversational Spanish
Public Relations
Legal Studies
Business and Commercial Laws
Elder Law
International Trade and Finance
Tax Law
Energy and Environmental Law
Public Law

Related Electives

AP Psychology
Naval Science (NJROTC)
AP Capstone Seminar
AP Capstone Research
Criminal and Civil Justice

College Majors

American Government and Politics
Political Science and Government
Public Administration
Public Policy Analysis
Urban Studies
History
Legal Studies
Criminology
Criminal Justice
Paralegal Studies

Careers

Administrative Services Manager
Emergency Management Director
Legislator
Political Scientist
Reporters
Lawyer
Paralegal

GOVERNANCE AND PUBLIC ADMINISTRATION

Foreign Service

Pathway Courses

Year 1 - Global History 9/World History 9H

Year 2 - Global History 10/AP World History

Year 3 - U.S. History/ AP United States History

Year 4 - Participation in Government/Economics/
AP Government

Related Electives

Naval Science (NJROTC)

AP Capstone Seminar

AP Psychology

AP Capstone Research

Criminal Civil Justice

Human Relations

Career Related Activities

Student Government

Peer Leaders

FHS Radio

International Ambassadors

German Exchange

Dual Enrollment Credit

World History 9

AP U.S. History

AP Government

AP World History

AP Capstone Seminar

Certificates

Conversational Spanish

Public Relations

Public Relations for the Web

College Majors

Political Communication

Political Science and Government

Public Administration

Public Policy Analysis

Careers

Administrative Services Manager

Emergency Management Director

Legislator

Political Scientist

Reporter



FREEPORT HIGH SCHOOL ADVANCEMENT PLACEMENT COURSES

*The Opportunities to Achieve
Are **ENDLESS!***

Advanced Placement (AP)

classes are challenging, college-level classes that students can take at Freeport High School. Students take AP Exams at the end of the course in May, measuring their mastery of college-level work. A score of 3 or higher on an AP Exam can typically earn students college credit and/or placement into advanced courses in college. We encourage you to challenge yourself and ask your guidance counselor about enrolling in AP courses.

AP COURSES OFFERED AT FREEPORT HIGH SCHOOL

English Language
English Literature
World History
U.S. History
Capstone Seminar
Capstone Research
Government
European History
Psychology
Biology
Chemistry
Physics B
Physics C
Environmental Science

Calculus AB
Calculus BC
Statistics
Computer Science
Principals
Spanish Language
Spanish Literature
Art History
Music Theory
Human Geography
Comparative
Government and Politics
French Language

AP CAPSTONE

The AP Capstone program gives you the chance to develop college-level academic skills and study subjects you love. It also gives you the chance to distinguish yourself to colleges.

This program recognizes high school students who have demonstrated outstanding college-level achievement in AP Seminar, AP Research, and additional AP courses through two awards:

AP Capstone Diploma: granted to students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP exams of their choosing.

AP Seminar and Research Certificate: granted to students who earn scores of 3 or higher in both AP Seminar and AP Research.

AP SCHOLARS AWARDS

The AP Program recognizes high school students who have demonstrated outstanding college-level achievement through their performance on AP exams. Students can qualify for the following recognition:

SCHOLARS: granted to students who receive grades of 3 or higher on three or more AP exams.

SCHOLAR WITH HONOR: granted to students who receive an average grade of at least 3.25 on all AP exams taken and grades of 3 or higher on four or more of these exams.

SCHOLAR WITH DISTINCTION: granted to students who receive an average grade of at least 3.5 on all AP exams taken and grades of 3 or higher on five or more of these exams.

NATIONAL AP SCHOLAR: granted to students in the United States who receive an average of at least 4 on all AP exams taken and scores of 4 or higher on eight or more of these exams.

THERE ARE MANY BENEFITS OF TAKING AP COURSES...

- Students learn rigorous college-level content and skills.
- Taking AP courses is valued in the college admission process.
- Opportunity to earn valuable credit and placement in college.
- 85% of selective colleges and universities report that a student's AP experience favorably impacts admission decisions.
- AP courses tell college admission officials that students are challenging themselves and preparing for the rigors they'll encounter in their college careers.
- Taking an AP course helps students build critical thinking skills, confidence and the essential time management and study skills needed for college success.

Health Science

Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.

Pathways/Programs of Study

- Health Science



MEDICAL

HEALTH
CARE

HEALTH SCIENCE

Health Science

Pathway Courses

Year 1 • Living Environment

Year 2 • Chemistry

Year 3 • AP Physics

Year 4 • AP Science Elective

Related Electives

AP Biology
AP Chemistry
AP Physics C
AP Psychology
AP Statistics
AP Environmental Science
Authentic Science Research

Career Related Activities

AIDS Awareness Group
Health Occupations (HOSA)
Science Olympiad
WFHS Communications

Certifications

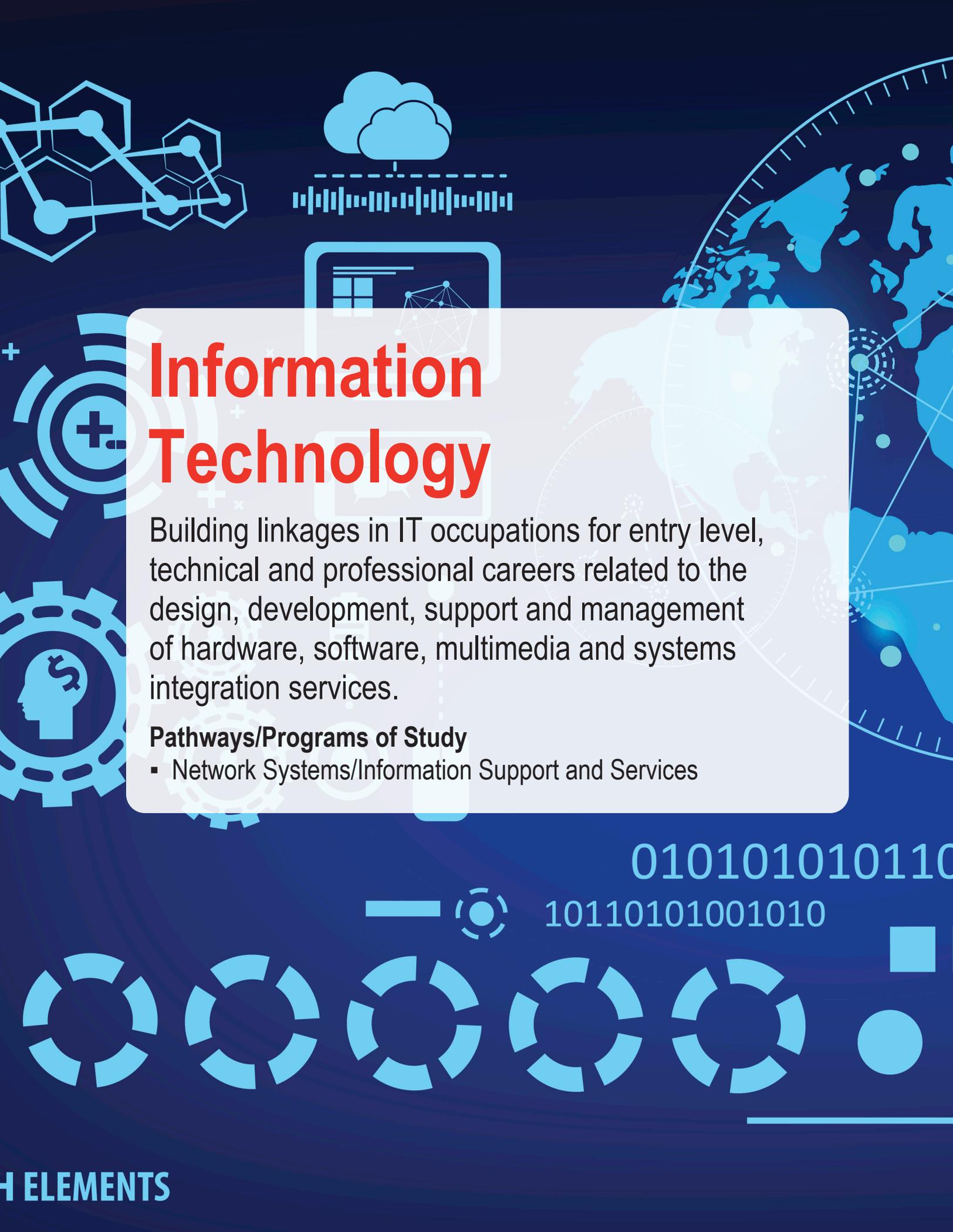
Dental Assistant
Health Skills
Medical Assistant
Nursing Assistant
Personal Trainer and Exercise Medicine
Physical Therapy Aide and Rehabilitation Medicine

College Majors

Biology
Chemistry
Pre-Medicine
Nursing
Pharmacy
Physician's Assistant
Physical Therapy

Careers

Dentist/Dental Technician
Dietitian and Nutritionist
Emergency Medical Technicians and Paramedic
Health Technologists and Technician
Nurse/Nursing Assistant
Occupational and Physical Therapist
Personal Trainer
Pharmacist/Pharmacy Technician
Physician Assistant
Physician/Doctor/Surgeon
Therapist



Information Technology

Building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.

Pathways/Programs of Study

- Network Systems/Information Support and Services

INFORMATION TECHNOLOGY

Network Systems/Information Support and Services

Pathway Courses

Year 1 • Computer Keyboarding

Year 2 • Basic Electronics

Year 3 • Computer Graphics/ Web Page Design

Year 4 • Animation

Related Electives

AP Calculus AB

AP Calculus BC

AP Chemistry

AP Physics

AP Physics C

AP Statistics

Career Related Activities

Graphic Design

Mathletes

Robotics

Dual Enrollment Credit

Animation

Certifications

Microsoft Technology Associate: Network Fundamentals 98-366

CompTIA - A+

CompTIA - Network+

CompTIA - Security +

Cisco CCNA and Network Security Specialist

Cisco CCNA Security Specialist

Computer and Network Security Specialist

Computer and Network Support Technician

Computer Support Technician

Database Management

MCSA: Windows Server 2012

Oracle Database Administrator

Network Administration

Network Support Technician

Networking Fundamentals

College Majors

Computer Engineering

Computer Information Systems

Computer Science

Information Technology

System Administration

Web Page/Multimedia

Careers

Information, Computer Systems Design and Related Services

Finance and Insurance

Administrative and Support Services

Educational Services; State, Local and Private

Computer and Information Research Scientist and System Manager

Computer Network Architect and Support Specialist

Computer Programmer

Computer Systems Analyst

Computer User Support Specialist

Network and Computer Systems or Database Administrator

A vibrant green background filled with various marketing-related icons such as a smartphone, a laptop, a bar chart, a pie chart, a magnifying glass, a pencil, gears, a person silhouette, a cloud, a speech bubble, and a Wi-Fi symbol. A hand in a red sleeve is shown in the bottom left corner, pointing towards a central white text box. The text box contains the word 'Marketing' in large red letters, followed by a definition and a list of study pathways.

Marketing

Planning, managing and performing marketing activities to reach organizational objectives.

Pathways/Programs of Study

- Marketing

MARKETING

Marketing

This program allows for a Career and Technical Endorsement and Dual Enrollment credit.

Pathway Courses

Year 1 • Computerized Keyboarding/Career and Financial Management

Year 2 • Sports and Entertainment Marketing

Year 3 • Virtual Enterprise

Year 4 • Computer Applications for College/Research and the Workplace

Related Electives

Accounting 1 & 2
Hotel & Restaurant Management
Fashion Marketing
Social Media Marketing
Business and Personal Law
AP Calculus AB
AP Calculus BC
AP Statistics
AP Computer Science Principles

Career Related Activities

DECA
High School Heroes
Graphic Designs
Future Problem Solvers
Odyssey of the Mind
Student Council
School Store
Yearbook

Real Estate Staging
Retail Merchandising
Sales Management and Development
Social Media for Business
Social Media Marketing Specialist
Video Marketing

Meeting, Convention and Event Planner
Public Relation
Real Estate Broker
Sales and Related Worker
Survey Researcher
Wholesale and Retail Buyer

Dual Enrollment Credit

Business Law
Accounting

College Majors

Advertising
Fashion Merchandising
International Marketing
Marketing
Merchandising
Public Relations
Retail Operations
Sales/Distribution

Requirements for CTE Endorsement:

- The Microsoft Office Specialist exams in Word, PowerPoint, and Excel were chosen as the written and performance assessment
- Locally Created Portfolio
- Work Based Learning Experiences such as; Field Trips, Site Visits, Internships, Apprentice Opportunities, Job Shadowing and Employment Opportunities

Certifications

E-Commerce Business
eMarketing Essentials
Managing Social Media Platforms
Marketing
Marketing Research
MCSE: SQL Business Intelligence
Mobile Marketing

Careers

Advertising and Promotions Manager
Appraiser and Assessor of Real Estate
Demonstrator and Product Promoter
Market Research Analyst and Marketing Specialist

Naval Science

Pathways/Programs of Study

- Junior Reserve Officer Training Corps



JUNIOR RESERVE OFFICER TRAINING CORPS

Marketing

Pathway Courses

Year 1	Naval Science 1
Year 2	Naval Science 2
Year 3	Naval Science 3
Year 4	Naval Science 4

Related Electives

Criminal Civil Justice
Psychology
AP Psychology
Human Relations
Sociology

Career Related Activities

NJROTC Drill Team
Mock Trial
Peer Leadership
Marching Band

Dual Enrollment Credit

Cadets may earn Participation in Government credit through the NJROTC program. Cadets must have successfully completed at least one year of Naval Science class PRIOR to their senior year. Participation in Government credit will be earned upon successful completion of the second, third or fourth year of Naval Science class that is completed during their 12th-grade (senior) year.

College Majors

Aerospace Studies
Military Science
Naval Science

Careers

Border Patrol Officer
Customs Officer
Law Enforcement Official
Military Officer
Service in a branch of the military
Army, Navy, Air Force
Marines or Coast Guard



**STUDENTS AND PARENTS
ARE INVITED TO ATTEND**

COLLEGE AND CAREER SCHOOL NIGHT

**HELD ANNUALLY
IN THE SPRING**

Freeport High School
50 South Brookside Avenue, Freeport,
Long Island, New York

ATTEND WORKSHOPS ON:

Preparing for the College Process

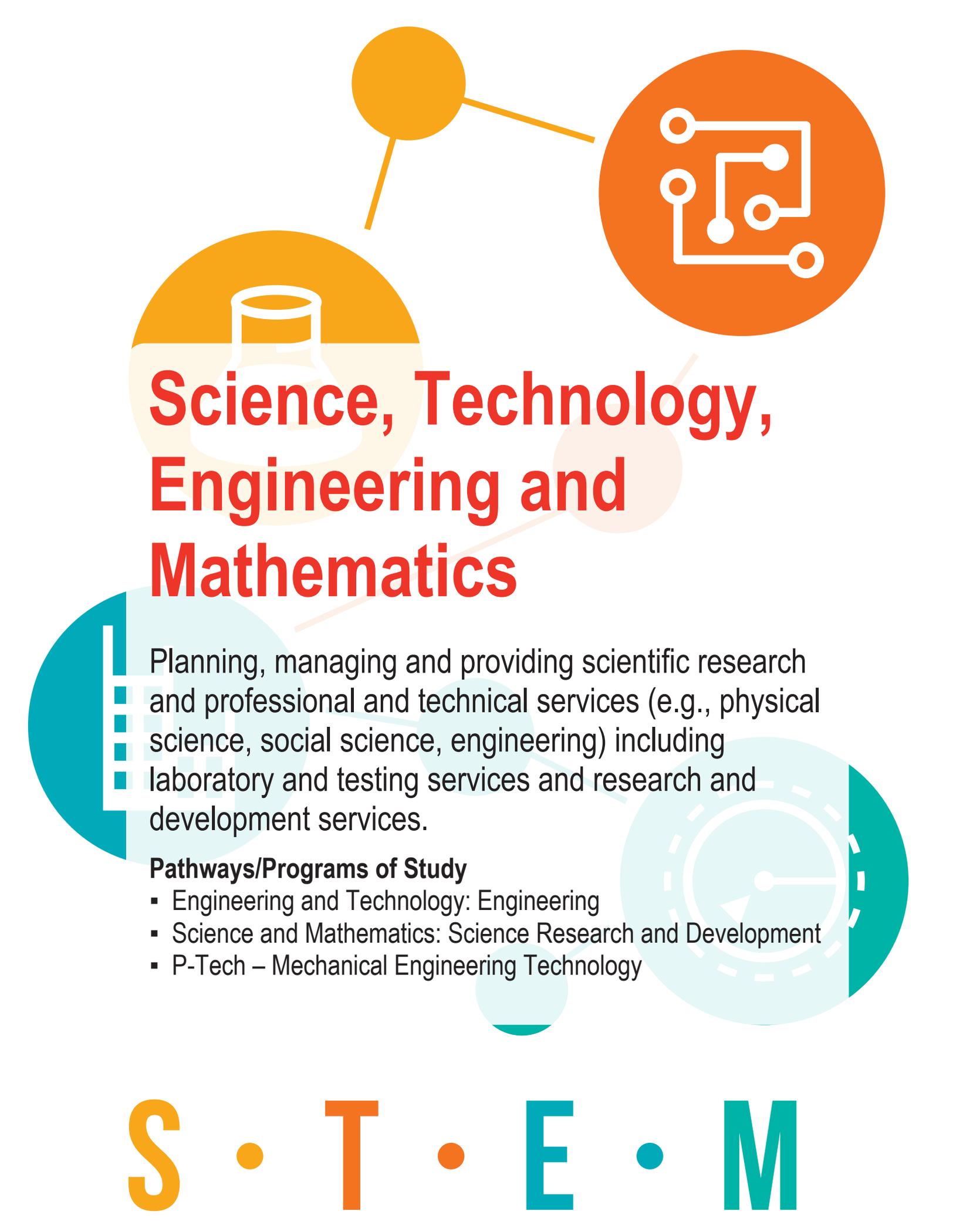
El Proceso de Admisión de la Universidad

NCAA and Athletic Scholarships

Saving for College

Colleges for Students with Learning Disabilities

Meet with more than 140 college representatives. This is a unique opportunity for students to meet with the admissions counselors from various colleges and universities, make inquiries about the programs and majors offered, obtain literature about the schools for future reference and make inquiries about admissions deadlines and campus visits.



Science, Technology, Engineering and Mathematics

Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.

Pathways/Programs of Study

- Engineering and Technology: Engineering
- Science and Mathematics: Science Research and Development
- P-Tech – Mechanical Engineering Technology

S • T • E • M

SCIENCE, ENGINEERING AND MATHEMATICS

Engineering and Technology

Engineering

Year 1 • Fundamentals of Technology

Year 2 • Technological Design

Year 3 • Technology and Society

Year 4 • Advanced Design Applications

- **Advanced Technological Applications**

Related Electives

AP Biology
AP Calculus AB
AP Calculus BC
AP Chemistry
AP Environmental Science
AP Physics
AP Physics C
AP Statistics
AP Computer Science Principles
Drafting/CAD

Career Related Activities

Odyssey of the Mind
Graphic Designs
Robotics
Science Olympiad
Future Problem Solvers

Certifications

Advanced Machine Technology
Alternative Electrical Energy
AutoCAD Designer
Electrical Maintenance
Electronics
Industrial Electronics Maintenance
Lean Six Sigma Green Belt
Mechatronics
Project Management Specialist
Radio Frequency ID (RFID) Electronics
Revit Architectural Designer

College Majors

Aerospace Engineer
Agricultural Engineer
Biomedical Engineer
Chemical Engineer
Civil Engineer
Electrical Engineer
Engineering Technician
Industrial Engineer
Mechanical Engineer
Nuclear Engineer

Careers

Aerospace Engineer
Agricultural Engineer
Biomedical Engineer
CAD Designer
Chemical Engineer
Civil Engineer
Draftsman
Electrical Engineer
Engineering Technician
Industrial Engineer
Mechanical Engineer
Nuclear Engineer

SCIENCE, ENGINEERING AND MATHEMATICS

Science and Mathematics

Science Research and Development

Pathway Courses

Year 1 • Authentic Science Research I

Year 2 • Authentic Science Research II

Year 3 • Authentic Science Research III

Year 4 • Authentic Science Research IV

Related Electives

AP Calculus AB

AP Calculus BC

AP Statistics

AP Biology

AP Chemistry

AP Physics

AP Physics C

AP Statistics

Career Related Activities

HOSA

Science Olympiad

Robotics

College Majors

Anatomy/Physiology

Astronomy

Biology/Biological Sciences

Chemistry

Ecology

Geology/Earth Science

Physics

Careers

Astronomer

Atmospheric and Space Scientist

Biological Scientist

Chemist

Geoscientist

Medical Scientist

Microbiologist

Museum Curator

Physicist

Research Technician

Survey Researcher

Zoologists and Wildlife Biologist



The Pathway to Success

Earn a Degree

Upon graduation from P-TECH (up to six years of study) students will have earned a high school Regents diploma and a college Associate in Applied Science Degree in Mechanical Engineering Technology. They will have the opportunity to advance their education in a four-year degree program at Farmingdale State College.

Start a Career

P-TECH partners with industry leaders, giving students the experience they need to secure lucrative, high-level careers in manufacturing and engineering. P-TECH's comprehensive work-based learning program includes visits from industry experts, internships, shadow days, coaching and mentoring, and part-time employment.

No Cost for Students

P-TECH is funded through a New York State grant program and is delivered at no cost to students or their families. This means that P-TECH students will be enrolled in a two-year college degree program and an industry-based career development program free of charge.

Comprehensive Curriculum

P-TECH students will complete a full course sequence in the STEM disciplines (science, technology, engineering and math), manufacturing and engineering. The curriculum is aligned with the New York State Common Core Learning Standards, Regents Exams and Farmingdale State College A.A.S. Degree.

Expert Faculty

Classes are taught by New York State-certified high school teachers trained as college adjunct instructors.

Industry Partners

As P-TECH's anchor corporate partner, Arkwin Industries will lead a diverse group of manufacturing and engineering companies in delivering an extensive work-based learning experience. A full list of P-TECH industry partners to date are:



Arkwin Industries



**Aerospace and Defense
Diversification Alliance in
Peacetime Transition**



**The Association for Operations
Management**



**Long Island Forum for
Technology**



Long Island STEM Hub

The P-TECH Candidate

The program is open to incoming ninth graders who are eager to acquire the skills necessary to earn a college degree and to compete in a highly competitive work force. Applicants must be willing to commit to a rigorous course of study in science, math, career development and essential 21st century skills, such as problem solving and critical thinking.

Apply Now

While there is no test required to enroll in P-TECH, only 20 spaces per district are available for the year, so students are encouraged to apply as early as possible. Interested eighth grade students and their families should speak to their guidance counselors to apply.

According to Long Island Business News

"Everybody thinks manufacturing's dead. It still employs 80,000 people and has over 3,500 companies on Long Island. It's a major economic driver." —Claude Solnik

SCIENCE, ENGINEERING AND MATHEMATICS

P-TECH – Mechanical Engineering Technology

Pathway Courses

Year 1 ▪ English 9 PT, Global St 9 PT, Living Environment PT, CC Algebra PT (Double Period) P.E., Art/Music, Foreign Language 2R/H

Year 2 ▪ English 10 PT, CC Geometry, Chemistry PT, Global St 10 PT, P.E., Foreign Language 3R/H, Health

Year 3 ▪ English 11 PT, CC Algebra 2 PT, Physics, Physics PT, U.S. History PT, Foreign Language 4R/H, Health, P.E., English 101, English 12 PT, MTH 129-Calculus with Applications, Pre-Calculus with Applications

Year 4 ▪ Participation in Government PT, Economics PT, P.E., Foreign Language 5R/AP Spanish Language

Related Electives

GPH 103-Technical Drafting, GPH 104-Introduction to Computer Graphics

MET109-Computer Programming and Applications

MER 215-Robotics

MET 211-Advanced Computer Graphics (Fall), MET 117-Manufacturing Processes (Spring)

Career Related Activities

Graphic Designs
Mathletes
Robotics
Science/Club Science Olympiad
WFHS Communications

External Experiences

Industry Mentorship
Internship
Summer Job Shadow

Certifications

Alternative Electrical Energy
AutoCAD Designer
Electrical Maintenance
Electronics
Industrial Electronics
Lean Six Sigma Green Belt
Mechatronics
Project Management Specialists
Radio Frequency ID (RFID) Electronics
Revit Architectural Designer

College Majors

Aerospace Engineer
Agricultural Engineer
Biomedical Engineer

Careers

Aerospace Engineer
Agricultural Engineer
Biomedical Engineer
CAD Designer
Chemical Engineer
Civil Engineer
Draftsman
Electrical Engineer
Engineering Technician
Industrial Engineer
Mechanical Engineer
Nuclear Engineer

Transportation, Distribution and Logistics

Planning, management and related professional and technical support services, such as logistics services, mobile equipment and facility maintenance.

Pathways/Programs of Study

- Automotive Technology

CTE AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY

This Program allows for a career and technical graduation endorsement and dual enrollment credit.

Pathway Courses

Year 1 ▪ Production Systems
Basic Electronics

Year 2 ▪ Design and Drawing for Production

Year 3 ▪ Auto Mechanics 1

Year 4 ▪ Auto Mechanics 2

Related Electives

Basic Electronics
Production Systems
Computer Graphics
Video Game Design
Design and Drawing for Production
Industrial Drafting 1-3
Photo 1
Digital Photography
Auto Mechanics 1 & 2
Animation
Fundamentals of Technology
Landscape Design/Drafting
Electrical Engineering

Career Related Activities

Graphic Designs
Mathletes
Robotics
Science Club/Science Olympiad
WFHS Communications
Computer Applications
Skills USA

Dual Enrollment Credit

Auto Mechanics 1
Auto Mechanics 2
Animation
Photo 1
Digital Photography

Certificates

Snap-On/NC3 Digital Multi-Meter Certification All Data:
Certified Automotive Information Specialist
ASE Student Certification – G1: Maintenance and Light Repair
ASE Student Certification – A1: Engine Repair
ASE Student Certification – A2: Automatic Transmission/
Transaxle
ASE Student Certification – A3: Manual Drive Train and Axles
ASE Student Certification – A4: Suspension and Steering

ASE Student Certification – A5: Brakes
ASE Student Certification – A6: Electrical/Electronic Systems
ASE Student Certification – A7: Heating and Air Conditioning
ASE Student Certification – A8: Engine Performance

College Majors

Aircraft Maintenance
Auto body/Collision and Repair Technicians
Automotive Mechanics Technology/Technician Diesel Mechanics
Technology/Technician
Engine Machinist, Small Engine Mechanics and Repair
Technology/Technician
Vehicle Emissions Inspection and Maintenance Technology/
Technician

Careers

Automotive Service Technician
Diesel Mechanic
Motorboat Mechanic
Aircraft Maintenance Technician
Automotive Body and Related Repairer
Automotive Service Technician and Mechanic Automotive
Specialty Technician
Bus and Truck Mechanics and Diesel Engine Specialist
Engine and Other Machine Assembler
Installation, Maintenance and Repair Worker

AVIATION

This Program allows for a career and technical graduation endorsement and dual enrollment credit.

Pathway Courses

Year 1 ▪ Algebra/Living Environment

Year 2 ▪ Earth Science/Geometry

Year 3 ▪ Aviation Operations (Nassau BOCES)

Year 4 ▪ Aviation Operations (Nassau BOCES)

Related Electives

AP Computer Science

Pre-Calculus

AP Calculus AB

AP Calculus BC

Physics

Naval Science

Career Related Activities

NJROTC Drill Team

Mock Trial

Peer Leadership

Robotics

Dual Enrollment Credit

Pre-Calculus

Certificates

Snap-On/NC3 Digital Multi-Meter Certification All Data:

Certified Automotive Information Specialist

ASE Student Certification – G1: Maintenance and Light Repair

ASE Student Certification – A1: Engine Repair

ASE Student Certification – A2: Automatic Transmission/
Transaxle

ASE Student Certification – A3: Manual Drive Train and Axles

ASE Student Certification – A4: Suspension and Steering

ASE Student Certification – A5: Brakes

ASE Student Certification – A6: Electrical/Electronic Systems

ASE Student Certification – A7: Heating and Air Conditioning

ASE Student Certification – A8; Engine Performance

College Majors

Aerospace Studies

Aviation Administration

Aerospace Engineering

Aviation and Aerospace Technology

Aviation Flight Management

Aviation Maintenance Management

Air Traffic Control Management

Air Transportation

Careers

Commercial Pilot

Air Traffic Controller

Aerospace Engineer

Civil Engineer

Aviation Inspector

Aeronautical Drafter

Aerospace Engineer

Aircraft Mechanic

Air Crew Member

Airfield Operations Specialist

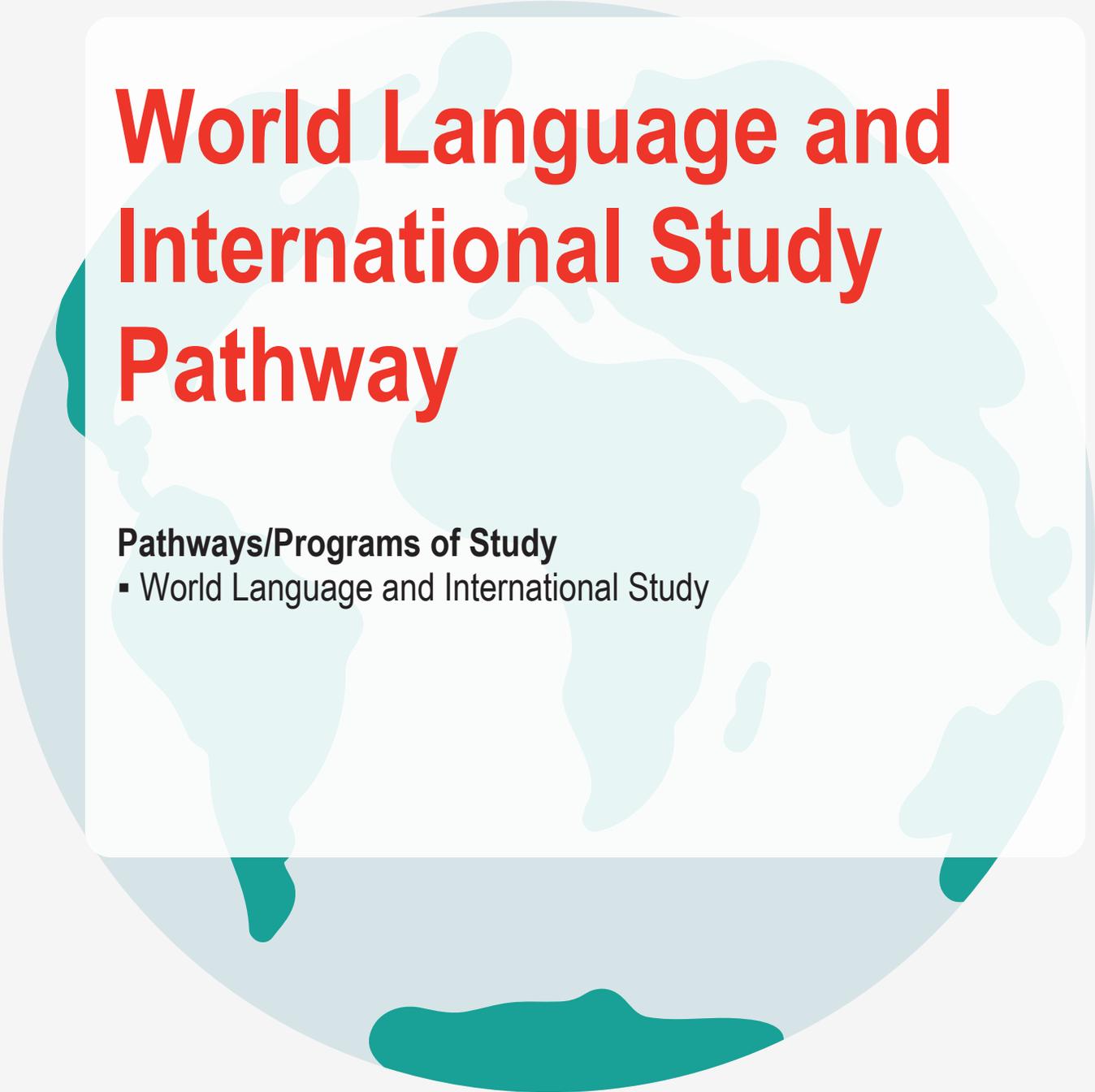
Aircraft Manufacturing

Aviation Management

Flight Dispatch



COMMUNICATION



World Language and International Study Pathway

Pathways/Programs of Study

- World Language and International Study

WORLD LANGUAGE AND INTERNATIONAL STUDY PATHWAY

Pathway Courses

Year 1 • World Language

Year 2 • World Language

Year 3 • World Language

AP Spanish Language

Year 4 • World Language

AP Spanish Literature

Related Electives

Fashion Marketing

Advertising and Media Design

Sports and Entertainment Marketing

Criminal and Civil Justice

Career Related Activities

German Exchange

Foreign Language Club (French/Italian/ESL)

Interact /Rotary Club

Latin Dance Salsa Team

Student Government

DECA

HOSA

International Ambassadors

College Majors

World Language

Business

Education

Journalism

Arts

Social Services

Travel and Tourism

Communications

Careers

Airline Services

Event Management

Foreign Civil Service

International Law

Merchandise Buyer/Branding

Hotel Management

Import/Export Specialist

Subtitle and Voiceover Artist

International Business Affairs

Interpreter/Translator

World Language Teacher

Journalists

Tourism and Travel Services

Film Industry

Publishing

Medical Field

**Students are eligible to apply for a Seal of Biliteracy upon successful completion of this pathway and other requirements.

FREEPORT HIGH SCHOOL

CLUBS AND EXTRA-CURRICULAR ACTIVITIES

Freshman Class
Sophomore Class
Junior Class
Senior Class
"It's Academic"
AIDS Awareness Group
Art/Fashion Club
Audio Visual
Brass Ensemble
Chess Club
DECA
Devil's Pride
FHS She-Devils Colorguard
Flashings
Foreign Language Clubs
(French/Italian/ESL)
Freeport Sports Leadership
Club
Future Problem Solving
Gay Straight Alliance
German Exchange
Graphic Designs
HOSA
Human Relations
Interact /Rotary Club
Jazz Ensemble
Key Club
L.A.D.Y.

Latin Dance Salsa Team
Marching Band
Mathletes
Mock Trial
National Honor Society
Ninth Grade Select
NJROTC Drill Team
Odyssey of the Mind #1
Odyssey of the Mind #2
Peer Buddy Club
Peer Leadership
Peer Tutoring
Renaissance Club
SADD/ Challenge Leaders
Science Club/ Science
Olympiad
She-Devils Heat Kickline
Step Team
Student Government
Travel Training (CEI
Students)
Truth Club
Vintage
WFHS Communications
Yearbook
Young Men's Initiative