FREEPORT HIGH SCHOOL

PATHWAYS SUPPLEMENTAL BROCHURE

"Tomorrow's Leaders Learning Today"

FREEPORT PUBLIC SCHOOLS

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Assistant Principal	Michael Campiglia	867-5379
Assistant Principal	Wendy Haise	867-5310
Assistant Principal	Maribel Maia	867-5348
Assistant Principal	Gleni Peña	867-5308
Assistant Principal	Dr. Aaron Johnson	TBA
Assistant Principal	Christian Paulino	867-5354

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Mary LaMotta	English Language Arts
Dr. Anthony Murray	Mathematics and Technology
Dr. Vincent Pereira	Science
Emma Perdomo	Guidance
Suzanne Chaves	ESL/Bilingual Education and World Languages
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FREEPORT HIGH SCHOOL

PRINCIPAL
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ASSISTANT PRINCIPALS
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Director of Guidance

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Nick Angelo
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Rosemary Garcia
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Melissa McCormack
Natalie Ramos
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516-867-5320

DEPARTMENT CHAIRS
Liana Valetti. . . . . English
Luz McCaw . . . . . Foreign Language
Jacqueline Matos . . . . . .Math
Peggy Parigoris. . . . . Science
Joshua Levitt . . . . . Social Studies

FACILITATORS/LEADS
Jocelyn Rodriguez . . . . . Art
Seth Patton . . . . . Nurse
Richard Johnson . . . . . .Technology/Business

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COUNSELORS CONTACT INFORMATION

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Student Last Names begin with……	
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Cal - Fr	Kim Freeman ext. 4231
Fu - Leg	Sherry Ryan ext. 4228
Lei - Nu	Melissa McCormack ext. 4232
O - Roq	Rosemarie Alario ext. 4225
Ros - Z	Natalie Ramos ext. 4263
Counselors for all ELL/FELL Students	
A - Li	Blanca Tapia ext. 4227
Lo - Z	Rosemary Garcia ext. 4233

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

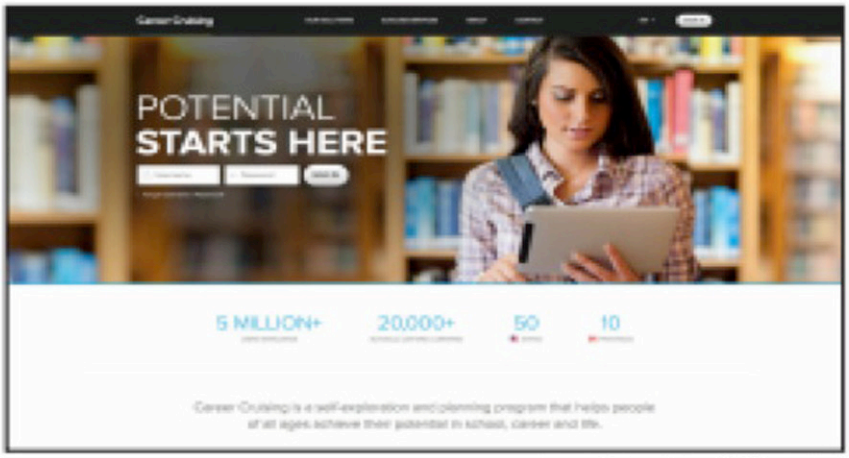
Your guidance counselor will be your Pathways guide throughout your time at Freeport High School. In addition to the required courses you will take, you will have the opportunity to select elective courses which align to your identified interests, strengths and potential career path.

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

CareerCruising
The Complete Guidance System



www.careercruising.com

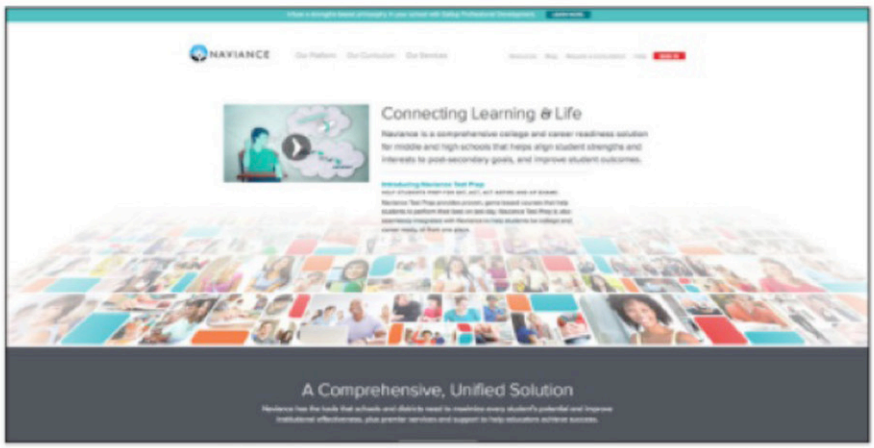
Career Cruising is an Internet-based career exploration and planning tool used by students to explore career and college options and develop a career plan. Features of the program include: Assessments, Career Profiles, Multimedia Interviews and College/University and Apprenticeship Information.

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.

NAVIANCE



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.

www.naviance.com

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
- Journalism 1 and 2
- English SAT
- Introduction to Theatre Arts

Social Studies Electives

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

Science Electives

- Forensics
- Marine Biology
- Oceanography
- Science Research

Math Electives

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

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

Designing, planning, managing, building and maintaining the built environment.

Pathways/Programs of Study

- Construction: Building Trades
- Design/Pre-Construction: Architecture

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

College Majors

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

Dual Enrollment Credit

Photo 1
Digital Photography
Animation
Auto Mechanics 1
Auto Mechanics 2

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

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

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

College Majors

Art Education
Fine Arts
Graphic Design
Web Design
Photography
Animation
Video Arts
Game Design
Toy Design

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

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

Dual Enrollment Credit

Animation
Photo 1
Digital Photography

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
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

Careers

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
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

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

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 History9/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

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
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

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

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.

The Opportunities to Achieve Are ENDLESS!

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 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.

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.

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

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

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

Dual Enrollment Credit

Business Law
Accounting

Certifications

E-Commerce Business
eMarketing Essentials
Managing Social Media Platforms
Marketing
Marketing Research
MCSE: SQL Business Intelligence
Mobile Marketing
Real Estate Staging
Retail Merchandising
Sales Management and Development
Social Media for Business
Social Media Marketing Specialist
Video Marketing

College Majors

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

Careers

Advertising and Promotions Manager
Appraiser and Assessor of Real Estate
Demonstrator and Product Promoter
Market Research Analyst and Marketing Specialist
Meeting, Convention and Event Planner
Public Relation
Real Estate Broker
Sales and Related Worker
Survey Researcher
Wholesale and Retail Buyer

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

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 Famingdale 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-Technicical 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