

# MARATHON HIGH SCHOOL



## 2021-2022 CAREER PATHWAYS PLANNING GUIDE

## **MARATHON HIGH SCHOOL**

### **MISSION STATEMENT**

The Marathon School District is committed to providing all students with a quality education and the skills they need to be successful. We will continuously improve instructional programs and provide learning experiences that meet the individual needs of students in a safe and supportive environment by developing an exceptional staff and partnering with families and the community.

### **VISION STATEMENT**

The Marathon School District will continue to create an exceptional educational system that is recognized for the academic excellence and character of its students, the professionalism and expertise of its staff, and the quality and diversity of its programs.

### **NONDISCRIMINATION STATEMENT**

The Marathon School District is committed and dedicated to the task of providing the best education possible for every child in the district for as long as the student can benefit from attendance and the student's conduct is compatible with the welfare of the entire student body.

The right of the student to be admitted to school and to participate fully in curricular, extracurricular, student services, recreational or other programs or activities shall not be abridged or impaired because of a student's sex, race, religion, national origin, color, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability or handicap.

# The ACP Model

Know-Explore-Plan-Go aligns Wisconsin ACP required components with research-based recommendations for incorporating career development throughout K12 for self-exploration, career exploration, and career planning and management.

## Self-Awareness (KNOW)

- Periodic self-assessment of interests and strengths
- Reflection and goal-setting
- Financial knowledge & understanding of resources
- Academic courses & skill preparation
- Behavioral & employability skill preparation

## Career Exploration (EXPLORE)

- Middle School career exploration activities and opportunities
- High School career exploration activities and opportunities
- World of work and labor market needs
- Understanding and comparing different postsecondary education & training

## Career Planning (PLAN)

- Planning skills
- The Middle School plan
- The High School plan

## Career Management (GO)

- Executing the plan
- Updating the plan with new information & artifacts
- Conferencing & mentoring
- Transitioning ACP Components



## **PROGRAMS OF STUDY**

<b>OVERVIEW</b> .....	5
<b>THE PROGRAMS OF STUDY:</b>	
- Agriculture, Food and Natural Resources.....	6
- Architecture and Construction.....	8
- Arts, AV Technology, and Communications.....	10
- Business, Management and Administration.....	12
- Education and Training.....	14
- Finance.....	16
- Government and Public Administration.....	18
- Health Science.....	20
- Hospitality and Tourism.....	22
- Human Services.....	24
- Information Technology.....	26
- Law, Public Safety, Corrections and Security.....	28
- Manufacturing.....	30
- Marketing.....	32
- STEM (Science, Tech, and Engineering & Math).....	34
- Transportation, Distribution, and Logistics.....	35

# CAREER CLUSTERS & PROGRAMS OF STUDY

## The Framework

**Career Clusters** are broad occupational groupings that serve as an organizing tool categorizing common knowledge and skill sets for secondary and post-secondary education through 16 broad groups of occupations and 79 pathways (sub-groups). As a tool, Career Clusters:

- blend rigorous academic/technical preparation
- provide for career development
- offer options for students to experience all aspects of a business or industry
- facilitate/assist students and educators with ongoing transitions

## The Plan

**Programs of Study (POS)** are sequences of Academic AND Career Technical Education courses to help students attain a postsecondary degree or industry-recognized certificate or credential within a career cluster/pathway. At minimum a POS must:

- Incorporate and align secondary and postsecondary education elements.
- Include academic and CTE content in a coordinated, non-duplicative progression of courses.
- Offer the opportunity, where appropriate, for secondary students to acquire postsecondary credits.
- Lead to an industry-recognized credential or certificate at the postsecondary level, or an associate or baccalaureate degree.

## The Process

### Career Pathway

A career pathway is a coherent, articulated sequence of rigorous academic and career related courses (the POS), commencing in ninth grade and leading to an associate degree, and/or an industry-recognized certificate or licensure, and/or a baccalaureate and beyond.

A career pathway...

- is developed, implemented and maintained in partnership among secondary and postsecondary education, business, and employers.
- is available to all students and designed to lead THROUGH the desired levels of education and training TO rewarding careers.



## AGRICULTURE, FOOD AND NATURAL RESOURCES

This program of study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

### Pathways

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics, Pre-Calculus, AP Calculus,  <b>SCIENCE:</b> Physics, AP Physics  <b>SOCIAL STUDIES:</b> Geography  <b>BUSINESS:</b> Career Discovery  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>AGRISCIENCE:</b> Animal Science, Advanced Animal Science, Horticulture, Greenhouse Management, Conservation, Food Science, Agribusiness Management.</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FFA, Ecology, FBLA,</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# AGRICULTURE, FOOD AND NATURAL RESOURCES

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>AGRIBUSINESS SYSTEMS</b>				
-Farm & Ranch Workers	-Agriculture Contact Provider	-Agribusiness Management -Agribusiness Operations Technology -Agri-Communications -Farm and Ranch Business Management	-Agricultural Economics -Agribusiness -Agricultural Education -Agricultural Journalism -Hospitality, Restaurant & Tourism Management -Professional Golf Management	-Agricultural Economics -Agriculture Leadership -Education Statistics
<b>ANIMAL SYSTEMS</b>				
-Animal Caretakers -Material Collection	-Ag Dairy Technician -Beef Quality Assurance -Livestock Production -Pork Quality Assurance	-Animal Science -Equine Industry Management -Livestock Industry Management -Swine Management -Veterinary Technology	-Animal Science Biochemistry -Grazing Livestock Systems -Veterinary Science -Veterinary Technologist	-Animal Science (Nutrition, Genetics or Physiology Focus) -Biochemistry -Integrative Biomedical Sciences -Veterinary Medicine
<b>ENVIRONMENTAL SERVICE SYSTEMS</b>				
-Refuse and Recyclable -Material Collection		-Environmental Science -Laboratory Science Technology	-Aquatic Ecology -Conservation Biology -Environmental Soil Science -Environmental Studies Habitat Management -Insect Science	-Entomology -Natural Resource Science
<b>FOOD PRODUCTS &amp; PROCESSING SYSTEMS</b>				
-Butchers & Meat Cutters -Meat Processing -Slaughter & Meat Packer	-Ag Dairy Technician -Commercial Plant Production -Food Handlers Permit -Quality Control	-Agronomy -Diversified Agriculture -Dietary Management -Food Science & Technology -Quality Control	-Agronomy -Animal Science, Food Science & Technology -Hospitality, Restaurant & Tourism Management -Mechanized Systems Management	-Agronomy -Animal Science (Meat Science Focus) -Food Science & Technology
<b>NATURAL RESOURCES SYSTEMS</b>				
		-Natural Resources Systems -Soil & Water Conservation -Wildlife Management	-Environmental Soil Sciences -Environmental Studies -Fisheries & Wildlife -Grassland Ecology / Management -Natural Resources & Environmental Economics -Water Science	-Horticulture & Forestry Sciences -Natural Resources Sciences

<b>PLANT SYSTEMS</b>				
-Nursery & Greenhouse Workers -Seed Sales -Tree Trimmers & Pruners	-Commercial Horticulture	-Agronomy Commercial -Horticulture Crop Production -Forestry Landscape / Nursery -Sport Turf Technology	-Agronomy -Biochemistry -Diversified Agriculture Studies -Grazing Livestock Systems -Horticulture -Insect Science	-Agriculture Agronomy -Biochemistry Entomology -Horticulture -Horticulture & Forestry
<b>POWER, STRUCTURAL &amp; TECHNICAL SYSTEMS</b>				
-Electrician Apprentice -Plumbing Apprentice -Welding Apprentice	-Parts Distribution & Management -Parts/Sales & Management	-Agri-Technology Farm -Mechanics Irrigation Tech -John Deere Ag Technician	-Agricultural Operations -Mechanized Marketing -Mechanized Science -Processing Operations	-Agricultural & Biological Systems Engineering -Mechanized Systems Management



## ARCHITECTURE & CONSTRUCTION

This program of study prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.

### Pathways

- Construction
- Design/Pre-Construction
- Maintenance Operations



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics, Pre-Calculus, AP Calculus,  <b>SCIENCE:</b> Physics, AP Physics  <b>SOCIAL STUDIES:</b> Geography, European History  <b>BUSINESS:</b> Career Discovery, Accounting, Marketing  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>ART:</b> Art I-IV  <b>STEM:</b> Introduction to Engineering, Principles of Engineering  <b>Technology Education:</b> Intro to Drafting, Architectural Drafting, Woods I-III, Construction Trades</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Tech Ed/Skills USA</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# ARCHITECTURE & CONSTRUCTION

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>CONSTRUCTION</b>				
-Carpentry -Iron Working -Masonry	-Carpentry -Construction Management -Electrical & Power Transmission -Iron Working	-Carpentry -Construction Management -Electrical & Power Transmission -Iron Working	-Construction Management	-Construction Management -Construction Engineering
<b>DESIGN &amp; PRE-CONSTRUCTION</b>				
	-Interior Design -Surveying Technology		-Architectural Engineering Technology -Civil Engineering Technology -Interior Design -Landscape Architecture	-Architectural Engineering Technology -Civil Engineering Technology -Environmental Design -Interior Design -Landscape Architecture
<b>MAINTENANCE &amp; OPERATIONS</b>				
-Electrical / Electronic Equipment, Installation & Repair -Grounds-keeping -Heating, Air Conditioning & Refrigeration Technology	-Electrical/Electronic Equipment, Installation & Repair -Grounds-keeping -Heating, Air Conditioning & Refrigeration Technology	-Electrical/Electronic Equipment, Installation & Repair -Grounds-keeping -Heating, Air Conditioning & Refrigeration Technology	-Industrial Engineering	

## ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

### Pathways

- Audio and Visual Technology and Films
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics  <b>BUSINESS:</b> Career Discovery  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>ART:</b> Art I-IV, Photoshop  <b>MUSIC:</b> Choir, Band, Music Appreciation, Musical Theater  <b>STEM:</b> Introduction to Engineering, Principles of Engineering  <b>Technology Education:</b> Intro to Drafting, Architectural Drafting, Woods I-III, Construction Trades</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Yearbook, Skills USA, Raider Review, Student Council</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>AUDIO &amp; VIDEO TECHNOLOGY &amp; FILM</b>				
	-Audio & Recording -Technology Video Production	-Audio & Recording Technology -Communications Technology -Electronics -Industrial Video Production -Film/Video Technology	-Design & Visual Communications -Electrical Engineering -Film Studies & Production -Mechanical Engineering -Telecommunications Management	-Electronics Engineering
<b>JOURNALISM &amp; BROADCASTING</b>				
	-Certification by the Society of Broadcast Engineers -Radio Announcing -Radio Production	-Audio & Recording Technology -Radio/TV Journalism Mass -Media/Communications -Media Arts	-Advertising -Broadcasting -Journalism -News-Editorial -Visual Communications	-Journalism
<b>PERFORMING ARTS</b>				
-Movie & Stage Grip -Usher & Ticket Taker -Movie Projectionist	-Musical Instrument Repair & Tuning Sound Engineering -Theater Technology	-Camera Operations -Music -Musical Instrument Repair & Tuning Sound Engineer -Sound Engineering -Theater Technology	-Arts Administration -Dance -Music -Stage Management -Theater Arts	-Music -Musical Arts
<b>PRINTING TECHNOLOGY</b>				
-Bookbinder & Bindery Worker -Graphic & Printing Equipment Operator	-Desktop Publishing -Digital Publishing -Graphic Communication Offset Publishing -Web Page Design	-Electronic Imaging & Graphics -Graphic Design -Media Arts -Printing Technology -Visual Publications	-Computer Graphics -Graphic Design -Industrial Design -Printing Management -Visual Communication & Design	
<b>TELECOMMUNICATIONS</b>				
	-Electronics Technology	-Computer & Information Sciences -Computer Systems Analysis -Electronics Technology in Telecommunications -Information Technology	-Computer Networking & Telecommunications -Electronics Engineering -Operations Technology -Telecommunications Management	-Electronics Engineering -Information Technology -Telecommunications -Engineering
<b>VISUAL ARTS</b>				
-Photograph Processing Worker	-Commercial Art -Digital Publishing -Graphic Art -Multimedia Photography	-Commercial Art -Graphic Design -Interior Design -Media Arts -Visual Publications	-Art History -Fashion Design -Graphic Design -Interior Design -Studio Arts -Visual Communications	-Art History -Studio Arts

## BUSINESS, MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

### Pathways

- Administrative Support
- Business Information Management
- General Management
- Human Resource Management
- Operations Management



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics, Financial Math  <b>BUSINESS:</b> Career Discovery, Computer Applications, Intro to Business, International Business, Marketing  <b>SOCIAL STUDIES:</b> Consumer Economics  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Yearbook, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# BUSINESS, MANAGEMENT & ADMINISTRATION

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>ADMINISTRATIVE SERVICES</b>				
-Administrative Assistant -Computer Operator -Customer Service Specialist -Entry Specialist	-Court Reporting -Information Processing -Legal or Medical Information Technology -Office Administration	-Court Reporting -Information Processing -Legal of Medical Information Technology -Office Administration	-Information Systems -Information Technology Management	
<b>BUSINESS INFORMATION MANAGEMENT</b>				
	-Business Administration -Information Technology -Office Technology	-Business Administration -Information Technology -Office Technology	-Business Administration -Information Systems -Information Technology -Management	-Business Administration -Information Technology
<b>HUMAN RESOURCE MANAGEMENT</b>				
-Human Resources Clerk	-Business Administration	-Business Administration	-Human Resources Management	-Business Administration
<b>MANAGEMENT</b>				
	-Certified Government Auditing Professional -Certified Professional Consultant	-Agribusiness Business Administration -Marketing	-Business Administration -Entrepreneurship -Marketing -Finance -Hospital Management -International Business	-Business Administration -Management
<b>OPERATIONS MANAGEMENT</b>				
	-Business Administration Retail Management	-Agribusiness -Business Administration	-Business Administration -Marketing Operations -Management	-Business Administration

## EDUCATION & TRAINING

This program of study prepares learners for careers in planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

### Pathways:

- Administrative and Administrative Support
- Professional Support Services
- Teaching and Training



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus  <b>BUSINESS:</b> Career Discovery, Teacher Aide  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Yearbook, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team, National Honor Society, FFA, Raider Review, Spanish Club</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# EDUCATION & TRAINING

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>ADMINISTRATIVE &amp; ADMINISTRATIVE SUPPORT</b>				
				-Educational Administration -Educational Studies -Business Administration -Administration & Supervision
<b>PROFESSIONAL SUPPORT SERVICES</b>				
	-Personal Trainer	-Library Technical Assistant	-Speech-Language Pathology -Social Work -Information Science & Technology -Special Education & Communication Disorders	-Educational Psychology -Human Services -Instructional Technology -School Psychology -School Counseling -Social Work
<b>TEACHING/TRAINING</b>				
-Child Care Worker -Coach of Community-based Sports Leagues	-Early Childhood Education -Assistant Coaching	-Early Childhood Education -Sign Language Interpreting -Education Paraprofessional	-Early Childhood Education -Elementary Education -Middle Level Education -Secondary Education -Special Education -Athletic Trainer	-Curriculum & Instruction Education -Teaching, Curriculum & Learning -Leadership Education -Leadership Studies



## FINANCE

The Finance path of study prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

### Pathways:

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities and Investments



## Suggested Learning Experiences

<b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i>	<b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature <b>MATH:</b> Statistics, Pre-Calculus, Financial Math <b>BUSINESS:</b> Career Discovery, Accounting, Introduction to Business, Financial Math <b>SOCIAL STUDIES:</b> AP U.S. Government and Politics, Consumer Economics <b>WORLD LANGUAGE:</b> Spanish I-V
<b>OTHER COURSEWORK</b>	Student selected via Youth Options / Course Options.
<b>STUDENT ORGANIZATIONS</b>	FBLA, Skills USA, Academic Decathlon, Economics Challenge Team, Math League
<b>CAREER EXPLORATION</b>	Xello
<b>CAREER EXPERIENCES / WORK BASED LEARNING</b>	Youth Apprenticeship, Job Shadow, State Employability Skills Certificate

# FINANCE

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>ACCOUNTING</b>				
-Accounting Clerk -Bookkeeping Clerk	-Business Administration	-Business Administration		-Accounting -Certified Public Accountant
<b>BANKING SERVICES</b>				
-Bank Teller -Commodity Banker		-Business Administration	-Banking & Finance -Business Administration -Auditor	-Banking & Finance -Business Administration
<b>BUSINESS FINANCE</b>				
		-Business Administration -International Business -Trade & Finance	-Business Administration -Economics	-Accounting & Finance
<b>INSURANCE</b>				
-Customer Service Agent -Processing Clerk	-Tax Preparation	-Business Administration -Property & Casualty Insurance	-Mathematics -Statistics	-Actuarial Science
<b>SECURITIES &amp; INVESTMENT</b>				
-Payroll Clerk	-Certified Financial Analyst -Certified Financial Planner	-Agribusiness Business Administration -Court Reporting -Information Technology -Office Administration -Office Technology	-Accounting Business Administration -Finance	-Business Administration -Management

## GOVERNMENT & PUBLIC ADMINISTRATION

This program of study prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

### Pathways:

- Foreign Services
- Governance
- National Security
- Planning
- Public Management & Administration
- Regulation
- Revenue and Taxation



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics  <b>BUSINESS:</b> Career Discovery, Sports and Entertainment Management  <b>SOCIAL STUDIES:</b> European History, Consumer Economics  <b>TECHNOLOGY:</b> Architectural Drafting  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Economics Challenge Team, Math League, Class Officer</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# GOVERNMENT & PUBLIC ADMINISTRATION

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>Foreign Service</b>				
			-International Studies -Sociology -Geography & History -International Business -Economics -Statistics	-Survey, Research & Methodology -Sociology -Economics -Statistics
<b>GOVERNANCE</b>				
			-Political Science -Geography -Economics -Statistics	-Political Science -Geography -Economics -Statistics -Research & Methodology
<b>NATIONAL SECURITY</b>				
			-Military Science -Psychology -Electrical or Computer Engineering -Foreign Language	-Survey, Research & Methodology
<b>PLANNING</b>				
			-Economics -Geography -Engineering	-Community & Regional Planning -Economics -Architecture -Geography -Survey, Research & Methodology
<b>PUBLIC MANAGEMENT &amp; ADMINISTRATION</b>				
			-Actuarial Science -Management -Business Administration -Economics -Statistics	-Public Administration -Actuarial Science -Management -Economics -Statistics
<b>REGULATION</b>				
			-Food Science & Technology -International Business -Economics -Statistics	-Survey, Research & Methodology -Food Science Technology -Economics -Statistics
<b>REVENUE &amp; TAXATION</b>				
			-Accounting -Economics -Finance -Actuarial Science Statistics	-Accounting -Economics -Finance -Actuarial Science -Family Financial Planning

## HEALTH SCIENCE

The Health Science program of study connects individuals to a large variety of health care areas that is characterized by diversity and changing technologies. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. There are obvious connections between Health Sciences and other programs of study.

### Pathways:

- Biotechnology Research & Development  
*(Agriculture, Food and Natural Resources; STEM)*
- Diagnostic Services  
*(Information Technology/Computing)*
- Health Informatics  
*(Business, Management, Administration; Law Public Safety, Corrections, Security; STEM)*
- Support Services  
*(Human Services; STEM)*
- Therapeutic Services  
*(Human Services; STEM)*



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics, Pre-Calculus, Calculus  <b>BUSINESS:</b> Career Discovery  <b>SCIENCE:</b> Chemistry, Advanced Chemistry, Physics, AP Physics, Advanced Biology  <b>SOCIAL STUDIES:</b> Consumer Economics, Social Problems, Introduction to Law  <b>PHYSICAL EDUCATION:</b> PE 9, Lifetime Fitness, Advanced Strength and Conditioning  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>HEALTH CARE:</b> Medical Terminology</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Math League, Class Officer</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# HEALTH SCIENCE

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>BIOTECHNOLOGY RESEARCH AND DEVELOPMENT</b>				
	-Quality Assurance Technician -Quality Control Technician	-Clinical Laboratory -Medical Laboratory -Technician (CLT) -Technician (MLT)	-Biochemistry Immunology -Medical Technology -Microbiology Neuroscience	-Anatomy -Biochemistry -Oncology -Biology -Virology -Epidemiology
<b>DIAGNOSTIC SERVICES</b>				
-Clinical Rotation	-Electrocardiograph Technology -Nuclear Medical Technology -Radiology Technologist	-Cardiovascular Technologist -Medical Laboratory Assisting -Nuclear Medical Technology	-Biology -Medical Imaging Technology -Medical Laboratory Science -Nutrition	-Cardiovascular Technology -Diagnostic Radiology -Medical Laboratory Science -Nuclear Medicine
<b>HEALTH INFORMATICS</b>				
-Coding Experience -Data Entry -Community Service	-Health Records Technology -Medical Assisting -Medical Librarian -Medical Transcription	-Health Information Technology Medical Coding -Medical Office Services	-Community Health -Health Care Administration -Health Education	-Health Care Administration -Library Science -Nursing Administration -Public Health
<b>SUPPORT SERVICES</b>				
-Central Services Assistant -Dietary Manager -Electrical/Electronic Equipment Repair	-Dietary Management -Electrical/Electronic Equipment Repair -Medical Office Management	-Dietary Management -Medical Office Management -Registered Dietetic Technician	-Biomedical Technology -Environmental Health & Safety -Prosthetic Therapies	-Environmental Health Sciences -Industrial/Operations Engineering -Public Health
<b>THERAPEUTIC SERVICES</b>				
-Clinical Rotation -Dental Assisting -Health Aide -Medical Assistant	-Certified Nurse's Aide -Dental Assisting -Licensed Practical Nurse -Massage Therapy	-Dental Hygiene -Licensed Practical Nursing -Pre-Medicine -Surgical Technology	-Athletic Training/ Exercise Science -Dietetics -Pre-Medicine -Recreational Therapy	-Clinical Nutrition -Dentistry -Medicine -Nurse Anesthetist -Pharmaceutical Services

## HOSPITALITY AND TOURISM

The Hospitality and Tourism program of study prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.

### Pathways:

- Lodging
- Recreation, Amusements, and Attractions
- Restaurant and Food/Beverage Services
- Travel and Tourism



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics  <b>BUSINESS:</b> Career Discovery, Marketing, Hospitality Management, Introduction to Business, Sports and Entertainment Marketing  <b>SOCIAL STUDIES:</b> Consumer Economics, European History, Introduction to Law  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Student Council, Academic Decathlon, Math League, Class Officer</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# HOSPITALITY AND TOURISM

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>LODGING</b>				
-Bell Captain -Guestroom Attendant -Reservationist	-Hotel Management	-Hotel Management	-Business Administration -Lodging Management -Sales and Marketing	
<b>RECREATION, AMUSEMENTS &amp; ATTRACTIONS</b>				
-Museums/Zoo/ Aquarium Docent -Resort Instructor -Theme Parks Retail Manager			-Business Administration -Management -Recreation, Fitness and Leisure Studies -Sports & Fitness Management	-Business Administration
<b>RESTAURANT AND FOOD/BEVERAGE SERVICES</b>				
-Cook -Dishwasher -Wait Staff	-Culinary Arts and Management -Dietary Management -Food Services / Hospitality -Food Service Management		-Food Service/Hospitality -Food Service Management -Hospitality Management -Restaurant and Food Service -Administration -Travel and Tourism	-Restaurant/Food Service -Administration
<b>TRAVEL AND TOURISM</b>				
-Event Planner -Ticket Agent -Tour Guide -Travel Agent	-Business Administration -Travel & Tourism	-Business Administration -Sales and Marketing -Travel & Tourism	-Business Administration -Marketing -Operations Management	-Business Administration



## HUMAN SERVICES

This program of study prepares individuals for employment in career pathways related to families and human needs including counseling and mental health services, family and community services, personal care, and consumer services.

### Pathways:

- Early Childhood Development Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics  <b>BUSINESS:</b> Career Discovery  <b>SCIENCE:</b> Advanced Biology  <b>SOCIAL STUDIES:</b> AP U.S. Government and Politics, Area Studies, Intro to Law  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>HEALTH CARE:</b> Medical Terminology  <b>MUSIC:</b> Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Math League</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# HUMAN SERVICES

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>CONSUMER SERVICES</b>				
-Call Center -Customer Service	-Certified Financial Planner -Wellness		-Family Science -Family Financial Management -Human Services -Business Administration	-Family Science -Human Services -Business Administration
<b>COUNSELING &amp; MENTAL HEALTH SERVICES</b>				
		-Human Services -Chemical Dependency Counselor	-Human Services -Psychology -Social Work -Human and Social Services Administration	-Marriage & Family Therapy -Early Childhood Education -Special Education and Communication Disorders
<b>EARLY CHILDHOOD DEVELOPMENT &amp; SERVICES</b>				
	-Nanny -Parenting	-Early Childhood Education	-Family Science -Special Education and Communication Disorders	-Child Development -Early Childhood Education -Special Education and Communication Disorders
<b>FAMILY &amp; COMMUNITY SERVICES</b>				
	-Para-educator -Family Life Specialist -Spirituality -Biblical Studies	-Human Services -Theology	-Human Services -Psychology -Nutrition, Fitness and Health Promotion -Gerontology -Family Science -Social Work	-Family Science -Psychology -Social Work -Human Services
<b>PERSONAL CARE SERVICES</b>				
	-Barbering -Cosmetology -Esthetics -Massage Therapy	-Mortuary Science -Cosmetology	-Pre-Mortuary Science	

## INFORMATION TECHNOLOGY

The Information Technology/Computing program of study involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy – from Financial Services to Medical Services, Business to Engineering and Environmental Sciences.

### Pathways:

- Information Support and Services  
*(Arts, AV Technology, and Communications; STEM)*
- Network Systems  
*(STEM)*
- Programming and Software Development  
*(Manufacturing, STEM)*
- Web and Digital Communications  
*(Arts, AV Technology, and Communications; STEM, Marketing)*



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b> <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English  <b>MATH:</b> Statistics, Pre-Calculus  <b>BUSINESS:</b> Career Discovery, Computer Applications, Computer App &amp; Game Programming  <b>SCIENCE:</b> Physics, AP Physics  <b>ART:</b> Art I-IV, Photoshop  <b>STEM:</b> Introduction to Engineering, Principles of Engineering, Digital Electronics  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>HEALTH CARE:</b> Medical Terminology  <b>MUSIC:</b> Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Math League, Yearbook, Raider Review</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# INFORMATION TECHNOLOGY

## Career Types by Pathway

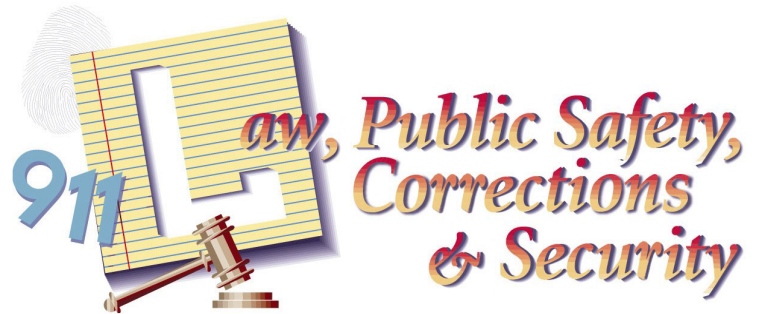
HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>INFORMATION SUPPORT AND SERVICES</b>				
-Help Desk Assistant	-Electronics Technician -Information Technology -Microsoft Certified -Database Administrator -Microsoft Office Specialist -Oracle Certified Professional	-Helpdesk/ Microcomputer Support -Information Technology -Computer Information -Systems Database Supports -Technical Support	-Computer Information -Systems Management -Information Systems -Mass Communications / Media Studies -Web/Multimedia Management	-Computer Information Systems -Computer Science Management -Information Systems
<b>NETWORK SYSTEMS</b>				
-Network Technician	-Cisco Training -Electronics Technology -Informational Technology -Microsoft Certified Systems Engineer Certification	-Computer and Information Sciences -Computer Technology -Electronics Technology -Information Technology -Networking Technology	-Computer Science -Computer Engineering -Computer Systems Analysis -Management Information Systems -Telecommunications Management	-Computer Science -Computer Engineering -Information Technology -Telecommunications Engineering
<b>PROGRAMMING AND SOFTWARE DEVELOPMENT</b>				
	-Information Technology -Computer Programming -Vendor/Product Certification	-Computer Programming -Computer Programming Technology -Computer Technology -Information Technology	-Computer Information Systems -Computer Programming -Computer Software Engineering -Computer Science -Management Info Systems	-Computer Programming -Computer Science -Information Resource Management -Information Technology -System Administration
<b>WEB AND DIGITAL COMMUNICATIONS</b>				
-Web Designer	-Animation -Information Technology -Multimedia -Certified Professional Webmaster	-Electronic Imaging -Information Technology Interactive Media -Media Arts -Web Development and Support	-Commercial Art -Computer Information Sciences -Design and Visual Communication -Multimedia Communication	-Computer Science

## LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

The Law, Public Safety, Corrections and Security program of study helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security including professional and technical support services.

### Pathways:

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus  <b>BUSINESS:</b> Career Discovery, Computer Applications  <b>SOCIAL STUDIES:</b> Introduction to Law, AP U.S. Government and Politics  <b>ART:</b> Art I-IV, Photoshop  <b>STEM:</b> Introduction to Engineering, Principles of Engineering, Digital Electronics  <b>WORLD LANGUAGE:</b> Spanish I-V  <b>PHYSICAL EDUCATION:</b> PE 9, Lifetime Fitness, Advanced Strength and Conditioning  <b>HEALTH CARE:</b> Medical Terminology  <b>MUSIC:</b> Choir, Band, Vocal Jazz, Music Appreciation, Musical Theater</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, National Honor Society, Academic Decathlon, Student Council, Class Officer</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>CORRECTION SERVICES</b>				
-Correctional Officer -Security Officer	-Criminal Justice	-Criminal Justice --Corrections Option --Parole Option --Probations Option	-Human Services -Criminal Justice -Social Work -Pre-Law	-Law and Legal Services -Criminal Justice
<b>EMERGENCY AND FIRE MANAGEMENT SERVICES</b>				
-Police, Fire and Ambulance Dispatch -Volunteer Fire Fighter	-Emergency Medical Technician (EMT) Basic / Intermediate Paramedic -Emergency Management -Fire Science Technology -Hazardous Waste Technician	-Emergency Medical Technician (EMT) -Fire Protection -Fire Science Technology	-Emergency Medical Services	
<b>LAW ENFORCEMENT SERVICES</b>				
-Animal Control -Parking Enforcement	-Criminal Justice	-Administrative Assistant - Legal Paralegal / Legal Assistant -Criminal Justice --Court Emphasis	-Paralegal Studies -Pre-Law / Legal Studies -Criminal Justice	-Law and Legal Studies -Criminal Justice
<b>SECURITY AND PROTECTIVE SERVICES</b>				
		-Criminal Justice / Law Enforcement -Law Enforcement	-Criminal Justice -Law and Legal Studies	-Criminal Justice

## MANUFACTURING

The Manufacturing program of study focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

### Pathways:

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance, Installation & Repair
- Manufacturing Production Process Development
- Production
- Quality Assurance



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus  <b>BUSINESS:</b> Career Discovery, Computer Applications  <b>SOCIAL STUDIES:</b> Introduction to Law, AP U.S. Government and Politics  <b>ART:</b> Art I-IV, Photoshop  <b>STEM:</b> Introduction to Engineering, Principles of Engineering, Digital Electronics  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, National Honor Society, Academic Decathlon, Student Council, Class Officer</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# MANUFACTURING

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>HEALTH, SAFETY AND ENVIRONMENTAL ASSURANCE</b>				
	-Occupational Safety & Health	-Environmental Engineering Technology -Environmental Studies -Occupational Safety & Health	-Environmental Engineering -Environmental Studies -Occupational Safety & Health	-Environmental Biology -Environmental Studies -Occupational Safety & Health
<b>LOGISTICS AND INVENTORY CONTROL</b>				
-Heavy Equipment Operation -Industrial Truck and Tractor Operation -Material Handling	-Truck Driving	-Logistics and Materials Management -Industrial Truck and Tractor Operation -Transportation, Distribution & Logistics	-Logistics & Materials Management -Industrial Truck and Tractor Operations -Transportation, Distribution & Logistics	-Logistics & Materials Management
<b>MAINTENANCE, INSTALLATION AND REPAIR</b>				
-Business Machine Technology -Custodial Services -Electronics Technology	-Computer Installation & Repair -Electronics Technology -Industrial Mechanics	-Diesel Technology -Manufacturing Technology -Mechanical Engineering Technology -Industrial Technology	-Biomedical Technology -Manufacturing Technology -Mechanical Engineering Technology	
<b>MANUFACTURING PRODUCTION PROCESS DEVELOPMENT</b>				
-Construction Trades	-Construction Trades	-Architectural Engineering Technology -Automotive Engineering Technology -Drafting & Design Technology	-Architectural Engineering -Civil Engineering -Computer Engineering	-Architecture -Civil Engineering -Construction Management & Inspection -Transportation and Highway Engineering
<b>PRODUCTION</b>				
-Iron Working -Precision Production -Upholstering and Leather Working -Woodworking	-Iron Working -Precision Production -Upholstering and Leather Working -Welding	-Building Construction -Electrical and Electronics Engineering Technology -Iron Working	-Computational Mathematics -Electrical and Electronics Engineering Technology -Operations Management	-Computational Mathematics -Operations Management
<b>QUALITY ASSURANCE</b>				
	-Quality Control Technology	-Occupational Safety and Health -Quality Control Technology	-Occupational Safety and Health -Quality Control Technology	-Occupational Safety and Health



## MARKETING

The Marketing program of study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives.

### Pathways:

- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus, Financial Math  <b>BUSINESS:</b> Career Discovery, Computer Applications, Marketing, Sports and Entertainment Marketing  <b>SOCIAL STUDIES:</b> Area Studies, AP U.S. Government and Politics  <b>ART:</b> Art I-IV, Photoshop  <b>TECHNOLOGY:</b> Photoshop in Tech Ed  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>FBLA, Forensics, Skills USA, Math League</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# MARKETING

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>MARKETING COMMUNICATIONS</b>				
	-Practitioners -Public Relations	-Business -Marketing -Small Business Management	-Business Administration -Communication -Management -Marketing -Public Relations	-Master of Business Administration -Master of Marketing
<b>MARKETING MANAGEMENT</b>				
-Industry and Trade Association Programs -Conferences -Seminars		-Business Administration -Entrepreneurship -Management -Marketing -Small Business Management	-Business Administration -Management -Marketing	-Master of Business Administration -Master of Marketing
<b>MARKETING RESEARCH</b>				
	-Product Vendors -Professional and Technical Organizations -Software Firms	-Business -Continued Education for Rapid Technological Advances -Marketing	-Business Administration -Economics -Information Science -Information Systems Management -Marketing	-Master of Business Administration -Master of Marketing
<b>MERCHANDISING</b>				
		-Business -Administration Business -Marketing -Merchandising -Sales -Customer Service -Small Business Management	-Business Administration -Management	-Master of Business Administration
<b>PROFESSIONAL SELLING</b>				
	-Management	-Business -Administration Business -Customer Service -Marketing -Retail Management -Sales -Small Business Management	-Business Administration -Management -Marketing	-Master of Business Administration -Master of Marketing

## STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

The STEM program of study prepares learners for careers in designing, planning, managing, building and maintaining the building environment.

### Pathways

- Engineering & Technology
- Science & Math



## Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus, AP Calculus, Financial Math  <b>BUSINESS:</b> Career Discovery, Computer Applications, Marketing, Sports and Entertainment Marketing  <b>SCIENCE:</b> Advanced Chemistry, Advanced Biology, Physics, AP Physics  <b>SOCIAL STUDIES:</b> Area Studies, AP U.S. Government and Politics  <b>STEM:</b> Digital Electronics, Introduction to Engineering, Principles of Engineering,  <b>TECHNOLOGY:</b> Photoshop in Tech Ed, Manufacturing, Construction Trades, Woods, Metals  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>Skills USA, Math League</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATH)

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>SCIENCE AND MATHEMATICS</b>				
		-Biology -Chemistry -Laboratory Science Technology -Medical Laboratory Technology	-Chemistry -Economics -Mathematics -Molecular Biology -Physics	-Biochemistry -Biological Sciences -Chemistry -Physics and Astronomy -Statistics
<b>ENGINEERING AND TECHNOLOGY</b>				
	-Industrial Technology	-Architectural Design Technology -Civil Engineering Technology -Industrial Technology -Surveying and Computer Aided Drafting (CAD)	-Agricultural Engineering -Biological Systems Engineering -Chemical Engineering -Construction -Engineering Technology -Industrial Engineering	-Agricultural and Biological Systems -Architectural Engineering -Chemical Engineering -Civil Engineering -Mechanical Engineering

## TRANSPORTATION, DISTRIBUTION AND LOGISTICS

This program of study exposes students to careers and businesses involved in the planning, management and movement of people, materials and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

### Pathways:

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics, Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning Management and Regulations
- Warehousing and Distribution Center Operations



### Suggested Learning Experiences

<p><b>HIGH SCHOOL COURSEWORK</b>  <i>This coursework does not include required core coursework that is applicable to all programs.</i></p>	<p><b>ENGLISH:</b> Business Issues and Communication, College English, AP Literature  <b>MATH:</b> Statistics, Pre-Calculus, Financial Math  <b>BUSINESS:</b> Career Discovery, Computer Applications  <b>SCIENCE:</b> Physics  <b>SOCIAL STUDIES:</b> Area Studies, AP U.S. Government and Politics, Consumer Economics  <b>STEM:</b> Digital Electronics, Introduction to Engineering, Principles of Engineering,  <b>WORLD LANGUAGE:</b> Spanish I-V</p>
<p><b>OTHER COURSEWORK</b></p>	<p>Student selected via Youth Options / Course Options.</p>
<p><b>STUDENT ORGANIZATIONS</b></p>	<p>Skills USA, Math League</p>
<p><b>CAREER EXPLORATION</b></p>	<p>Xello</p>
<p><b>CAREER EXPERIENCES / WORK BASED LEARNING</b></p>	<p>Youth Apprenticeship, Job Shadow, State Employability Skills Certificate</p>

# TRANSPORTATION, DISTRIBUTION AND LOGISTICS

## Career Types by Pathway

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE/LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
<b>FACILITY &amp; MOBILE EQUIPMENT MAINTENANCE</b>				
-Auto Body Repair -Automotive and Diesel Technology	-Auto Body Repair -Auto Mechanics -Aviation Airframe Maintenance -Industrial Maintenance -Electronics	-Aeronautical and Aerospace Engineering Technology -Automotive Technology -Aviation Airframe Technology -Electronic Technology	-Engineering -Industrial Engineering -Mechanical Engineering	-Industrial and Management Systems Engineering -Mechanical Engineering
<b>HEALTH, SAFETY, &amp; ENVIRONMENTAL MANAGEMENT</b>				
	-Business	-Business Administration -Industrial Technology -Logistics and Materials Management	-Business Administration -Industrial Distribution -Industrial Technology -Management Technology -Operations Management -Logistics and Material Management	-Engineering Management -Industrial and Management Systems Engineering -Operations Management
<b>SALES AND SERVICE</b>				
-Cashier -Customer Service -Travel Agent	-Desktop Publishing -Entrepreneurship -Parts, Sales and Management -Travel Services	-Business Marketing -Marketing Management -Parts, Sales and Management	-Advertising -Business -Marketing	-Advertising -Business -Marketing
<b>TRANSPORTATION OPERATIONS</b>				
-Taxi Driving -Locomotive Engineering -Bus Driving -Truck Driving	-Air Traffic Control -CDL Driver Training Class A, B -Commercial Pilot and Flight Crew Training -Vehicle and Equipment Operations	-Air Traffic Control -Commercial Pilot and Flight Crew Training	-Air Traffic Control	
<b>TRANSPORTATION SYSTEMS, INFRASTRUCTURE, PLANNING, MANAGEMENT &amp; REGULATION</b>				
		-Civil Engineering -Surveying & CAD	-Aviation Systems -Management Civil Engineering -Maritime Studies -Naval Architecture and Marine Engineering	-Civil Engineering -Engineering Management -Naval, Architecture and Marine Engineering
<b>WAREHOUSING &amp; DISTRIBUTION CENTER OPERATIONS</b>				
-Shipping and Receiving -Storage and Distribution	-CDL Driver Training Class A, B -Forklift Training	-Business -Logistics and Materials Management -Warehouse Management	-Business -Logistics and Material Management	-Logistics and Material Management