



# **CTE Pathways & Certifications**



# About eDynamic Learning

Founded by a passionate classroom teacher, eDynamic Learning's mission is to provide accessible and equitable resources to empower educators and guide students on their journey to life after graduation. With a focus on fostering exploration and skill acquisition through Career and Technical Education (CTE), we are committed to delivering high-quality resources that facilitate student exploration of interests, career options, and vital life readiness skills.

Our dedication to nurturing exploration begins early, with tailored resources for middle school students. Our extensive courseware catalog and Learning Blade resource, with supplemental mission-based lessons, have a proven record of expanding STEM, computer science, and career interest and awareness.

As the largest publisher of CTE and elective digital curriculum in North America, we offer a vast catalog of over 270 courses spanning grades 6-12, aligning with 12 career clusters and preparing students for nearly 100 industry certifications.

For schools that need teachers in hard-to-fill specialized areas, our virtual instructional services division can provide state certified teachers who are subject matter experts. Schools can expand their course offerings with a robust, diverse digital curriculum supported by qualified educators.

Our Professional Development solutions empower teachers to implement our courseware successfully in different instructional settings. We go beyond coursework, emphasizing hands-on experiential learning through our Knowledge Matters virtual simulation instructional materials and projects.

At eDynamic Learning, we take pride in our solutions and services empowering educators and students to embark on a transformative journey of exploration, engage in learning, and participate in real-world experiences.

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## Digital Curriculum

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# Digital Curriculum For Career & Technical Education (CTE)

As a teacher-founded company, education is in our DNA. We strive to provide the best possible curriculum for instruction and learning, with superior customer support.

Our digital curriculum integrates interpersonal and employability skills for college and career readiness throughout each course to foster a growth mindset, communication skills, respect and empathy of others, appropriate behavior, critical thinking skills, and active listening.

eDynamic Learning's Career Ready Program offers career pathway programs featuring sequenced courses aligned with industry certification exam competencies and state standards. The pathways and courses are developed using a backwards design methodology to ensure students acquire the knowledge and skills needed to earn industry-recognized credentials. We're so confident in the effectiveness of our programs that select career pathways include the P.A.S.S. Promise – a guarantee that if students do not pass their industry certification exams, we will cover the cost to retake the test.



## Comprehensive Features & Benefits

- + Complete textbook replacement
- + Aligned to standards & industry certifications
- + Literacy support tools
- + Translates content into over 95 languages
- + Gradebook, dashboard & reporting
- + Pacing guide and answer keys
- + Project Based Learning Guide
- + Blended Learning Guide
- + Each course has same framework
- + Powerful professional development options
- + Consistent design and navigation
- + Easy and fast implementation
- + Customizable for IEPs & 504 plans
- + Teacher/student feedback features
- + WCAG 2.0 AA Compliant

## Expand your CTE Program with real-world experience



**Knowledge Matters**  
Powered by eDynamic Learning

### Knowledge Matters Simulations



Simulations immerse students in realistic business and healthcare scenarios, allowing them to practice decision-making and problem-solving in a safe, controlled environment. By engaging in interactive simulations, students can better understand complex processes and improve their practical skills.



**Learning Blade**  
Powered by eDynamic Learning

### Learning Blade Middle School Missions



Learning Blade allows seamless integration of STEM, Computer Science, and CTE concepts for students in grades 5-9 through 13 engaging missions and 4 supplemental modules. Ready-to-use online student lessons for math, science, social studies, and language arts, aligned to state standards, with corresponding lesson plans for teachers. Each mission introduces students to STEM and CTE careers and technologies, helping them "see what they can be" in the future.



**Greenways Academy**  
Powered by eDynamic Learning

### Greenways Academy Instructional Services



Our instructional services are aligned with our robust catalog of courses and can be a great tool as your CTE program expands. Whether you want to offer multiple pathways and courses, struggle to justify onsite teachers due to lower enrollments, or are struggling to find qualified instructors for these specialized courses, we can help design a solution to meet your needs.

# Career Clusters and the Importance of CTE in K-12 Education

Career and Technical Education (CTE) in K-12 is vital for preparing students for the workforce. CTE provides hands-on learning and practical skills in various career clusters, helping students understand different career paths and make informed choices about their futures. Our approach aligns to Advance CTE's latest framework, integrating academic knowledge with practical skills, preparing students for employment, further education and lifelong learning.

**Career Clusters:** Career clusters categorize a wide range of careers into 14 groups, each encompassing various pathways and specific occupations. These clusters help students align their education with their career interests and goals, offering a roadmap from high school to higher education and employment. eDynamic Learning is revolutionizing education by offering digital curriculum that spans 12 career clusters, designed to prepare students for their future.

**Career Pathways (also known as Sub-Clusters):** Sub-clusters, also known as career pathways within a career cluster, focus on more specialized areas within the broader cluster. Career pathways are structured sequences of courses and experiences designed to prepare students for careers within specific industries.

## 14 Career Clusters

- + Advanced Manufacturing
- + Agriculture
- + Arts, Entertainment & Design
- + Construction\*
- + Digital Technology
- + Education
- + Energy & Natural Resources
- + Financial Services
- + Health & Human Services
- + Hospitality & Events
- + Management & Entrepreneurship
- + Marketing & Sales
- + Public Service & Safety
- + Supply Chain & Transportation\*



## Importance of CTE:



### Personalized Learning

CTE provides opportunities for personalized and experiential learning, engaging students in meaningful ways.



### Bridging Education and Employment

CTE connects classroom learning with real-world applications, making education more relevant and practical.



### Skill Development

CTE programs equip students with technical and soft skills necessary for the workforce.



### Career Readiness

By exploring different career options, students can identify their interests early and pursue relevant education and training.



### Economic Growth

CTE contributes to a skilled workforce, driving economic development and innovation.

\*eDynamic Learning does not currently offer specific courseware for the Construction and Supply Chain & Transportation Career Clusters. However, our career exploration resources and curriculum can be utilized to support foundational skills and knowledge in these areas, enhancing career pathways in schools.





# Advanced Manufacturing Career Cluster

Formerly Manufacturing Career Cluster



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Learning**

# Advanced Manufacturing

The Advanced Manufacturing Career Cluster blends innovative technologies and practices to enhance design and production. It covers areas such as engineering, research and development, automation, equipment maintenance, safety protocols, and quality control. Advanced Manufacturing aims to increase efficiency and reduce waste, ensure safety, and produce high-quality goods, driving the industry's growth and adapting to modern demands.

## 2 sub-clusters & 2 career paths

eDynamic Learning's digital curriculum guides students towards industry-recognized certifications and equips them with the skills necessary for high-demand, well-paying jobs in advanced manufacturing and related fields.



Scan Here to View  
Specific Courses in  
each Career Track.



## Production & Automation Sub-Cluster



### Manufacturing Technician

A manufacturing technician operates and maintains machinery and equipment, troubleshoots technical issues, and ensures the efficient production of goods in a manufacturing environment.

## Robotics Sub-Cluster



### Robotics Specialist

A robotics specialist designs, builds, and maintains robotic systems to automate and enhance manufacturing processes, ensuring efficiency, safety, and quality in production.

**Certifications:** REC Foundation Certification





## Learning Blade

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### Car Manufacturing Learning Blade Mission

In the Car Manufacturing Mission, students will explore and apply modern manufacturing techniques to design and build a new car, emphasizing Advanced Manufacturing and Industrial Engineering Pathways.



### Digital Curriculum

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Pair this mission with our Middle School Robotics courses to introduce students to a wide range of career opportunities.

### Building Submarines Learning Blade Mission

In the Submarine Mission, students will explore modern manufacturing techniques and technologies to improve the design and construction of a new Naval submarine, emphasizing Engineering and Manufacturing Pathways.



### Digital Curriculum

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Pair this mission with our Middle School Robotics courses to introduce students to a wide range of career opportunities.





# Agriculture Career Cluster

Formerly Agriculture, Food & Natural Resources Career Clusters



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# Agriculture

The Agriculture Career Cluster concentrates on the scientific advancement, cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems, as well as other plant and animal-based industries like regenerative agriculture, sustainable logging, and fisheries. This cluster significantly overlaps with the Energy and Natural Resources Cluster, highlighting a symbiotic relationship that emphasizes stewardship and resilient communities.

## 2 sub-clusters & 3 career paths

With eDynamic Learning, students are guided toward earning industry certifications and developing the skills needed for success.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Animal Science



### Animal Assistant

An animal assistant cares for animals in various settings, including veterinary clinics, zoos, and shelters, by providing basic care, feeding, and assisting with medical procedures.

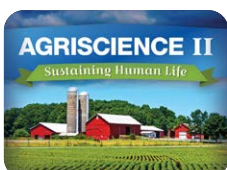
## Plant Systems



### Agricultural Technician

An agricultural technician supports agricultural scientists by conducting experiments, collecting data, and using advanced technologies to improve crop and livestock production and sustainability practices.

**Certifications:** NOCTI Horticulture - Landscaping



### Landscaping Technician

A landscaping technician designs, installs, and maintains outdoor spaces, including gardens, lawns, and other green areas, ensuring they are aesthetically pleasing and healthy through tasks like planting, pruning, fertilizing, and irrigation.

**Certifications:** NOCTI Horticulture - Landscaping



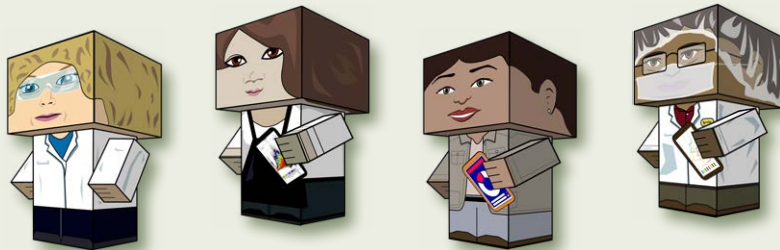
**Learning Blade**

Powered by eDynamic Learning

## Fresh Food

### Learning Blade Mission

In the Fresh Food Mission, students consider methods to increase production of local goods in a community. Integrating STEM principles prepares students for advanced agriculture education.



**Digital Curriculum**

Powered by eDynamic Learning

Pair this mission with our Middle School STEM courses to introduce students to a wide range of career opportunities.

## Dolphin Rescue

### Learning Blade Mission

In the Dolphin Rescue Mission, students will help rescue and rehabilitate an injured dolphin, including creating an artificial prosthetic tail. This engaging mission introduces middle school students to the dynamic career fields of Biomedical and Veterinary Medicine.



**Digital Curriculum**

Powered by eDynamic Learning

Pair this mission with our Middle School STEM courses to introduce students to a wide range of career opportunities.







# Arts, Entertainment & Design Career Cluster

Formerly Arts, A/V Technology & Communications Career Clusters



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# Arts, Entertainment & Design

The Arts, Entertainment & Design Career Cluster combines creative roles in visual and performing arts, film, journalism, fashion, interior design, and creative technologies. This cluster focuses on creating, producing, and sharing artistic and design work across multiple platforms, aiming to entertain, inform, beautify, and inspire.

## 4 sub-clusters & 10 career paths

eDynamic Learning partners with schools to deliver curriculum empowering students to gain industry knowledge that can lead to certifications.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Design & Digital Arts



### Animator

An animator creates moving images using hand-drawn, computer-generated, or stop-motion techniques to bring stories and characters to life for films, television, and video games.



### Game Designer

A game designer develops concepts, mechanics, and storylines for video games, collaborating with artists and programmers to create engaging and interactive gameplay experiences.

**Certifications:** NOCTI Visual Communications and Interactive Media Design (Job Ready)



### Graphic Designer

A graphic designer creates visual content for various media, including print and digital, using typography, imagery, and layout techniques to communicate messages and concepts effectively.

**Certifications:** NOCTI Visual Communications & Interactive Media Design (Job Ready)



### Web Designer

A web designer creates visually appealing and user-friendly website layouts, focusing on the aesthetic aspects and user interface to enhance the overall user experience.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; CIW Web Design Specialist, CIW Site Development Associate, ICT Web Design Essentials, NOCTI Interactive Media (Pathway Assessment)



### Web Developer

A web developer builds and maintains websites and web applications, using coding languages and frameworks to ensure functionality, performance, and security.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; ICT Web Design Essentials, CIW Site Development Associate



## Film & Broadcasting



### Journalist

A journalist researches, writes, and reports news stories and articles for newspapers, magazines, television, and online platforms, aiming to inform and engage the public.



### Photographer

A photographer captures images using cameras and other equipment, focusing on composition, lighting, and subject matter to produce visually compelling photographs for various purposes.

## Fashion & Interiors



### Fashion Designer

A fashion designer creates original clothing, accessories, and footwear by sketching designs, selecting fabrics, and overseeing the production process to bring their visions to life.



### Interior Designer

An interior designer plans and decorates indoor spaces to create aesthetically pleasing and functional environments, considering factors like layout, color schemes, and furniture.

## Performing Arts



### Film/Theater Associate

A film/theater associate assists in the production of films and theater performances, handling tasks such as set design, costume creation, and technical support to ensure smooth operations.



**Knowledge Matters**  
Powered by eDynamic Learning

## Fashion Knowledge Matters Simulation

This simulation leverages the fashion and retailing industries to teach students many core business concepts: marketing, pricing and markdowns, staffing, and retail locations. Also included is a robust social media marketing lesson that allows students to use an app within the simulation to boost their store's sales and profits.



Pair this simulation with our Fashion Design course to give students a complete experiential learning experience.



**Digital Curriculum**  
Powered by eDynamic Learning





# Digital Technology Career Cluster

Formerly Information Technology Career Cluster



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# Digital Technology

The Digital Technology Career Cluster combines the development of digital systems that support communication and data storage using critical technologies like artificial intelligence, data analytics, and cybersecurity. It prepares professionals to navigate and lead in the constantly evolving tech landscape, focusing on everything from software development to data analytics to cyber safety. This cluster drives innovation across all industries and clusters to tackle complex challenges and opportunities in our communities and economies.

## 4 sub-clusters & 7 career paths

eDynamic Learning provides a digital curriculum that prepares students for industry-recognized certifications and equips them with the skills needed for high-demand, lucrative careers.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Network Systems & Cybersecurity



### Cybersecurity Specialist

A cybersecurity specialist protects computer systems and networks from cyber threats by implementing security measures, monitoring for vulnerabilities, and responding to security incidents.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; CCNA Cyber Ops, CompTIA Security+

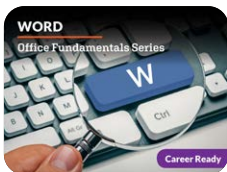


### Network Systems Specialist

A network systems specialist designs, installs, and maintains an organization's network infrastructure, ensuring reliable connectivity and optimal performance of computer networks.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; CCNA Cyber Ops, CompTIA Security+; NOCTI Network Systems (Pathway Assessment), NOCTI Computer Networking Fundamentals (Job Ready Assessment)

## Information Technology (IT) Support & Services



### Microsoft Office Specialist

A Microsoft Office Specialist is proficient in Microsoft Office applications, providing training, support, and expertise to optimize productivity and efficiency in various business environments.

**Certifications:** iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; MO-210 Microsoft Excel (Microsoft Word 365 Apps); MO-110: Microsoft Word (Microsoft Word 365 Apps); MO-310 Microsoft PowerPoint (Microsoft Word 365 Apps); MO-500: Microsoft Access Expert (Access & Access 2019), MOS Exam 77-730: Access 2016



# Software Solutions



## Game Designer

A game designer develops concepts, mechanics, and storylines for video games, collaborating with artists and programmers to create engaging and interactive gameplay experiences.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; NOCTI Visual Communications and Interactive Media Design (Job Ready)



## Programmer

A programmer writes and tests code that enables software applications and systems to function properly, often specializing in specific programming languages or development environments.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; Computer Programmer (Job Ready Assessment), ICT Programming and Logic

# Web & Cloud



## Web Designer

A web designer creates visually appealing and user-friendly website layouts, focusing on the aesthetic aspects and user interface to enhance the overall user experience.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; CIW Web Design Specialist, CIW Site Development Associate, ICT Web Design Essentials, NOCTI Interactive Media (Pathway Assessment)



## Web Developer

A web developer builds and maintains websites and web applications, using coding languages and frameworks to ensure functionality, performance, and security.

**Certifications:** CompTIA IT Fundamentals; iC3 Computing Fundamentals, iC3 Key Applications, iC3 Living Online; ICT Web Design Essentials, CIW Site Development Associate





## Learning Blade

Powered by eDynamic Learning

### Hack Attack

#### Learning Blade Mission

In the Hack Attack Mission, students will see how web development, application management, and social media experts collaborate to restore a school's website and social media presence after a cyberattack. This engaging mission introduces middle school students to the dynamic Computer Science and Communications Pathways.



Pair this mission with our Middle School Coding courses to introduce students to a wide range of career opportunities.



Digital Curriculum  
Powered by eDynamic Learning

### Rescue Robots

#### Learning Blade Mission

In the Rescue Robot Mission, students will explore technology and techniques used in robotics design such as sensors, circuits, industrial design and computers.



Pair this mission with our Middle School Career Exploration courses to introduce students to a wide range of career opportunities.

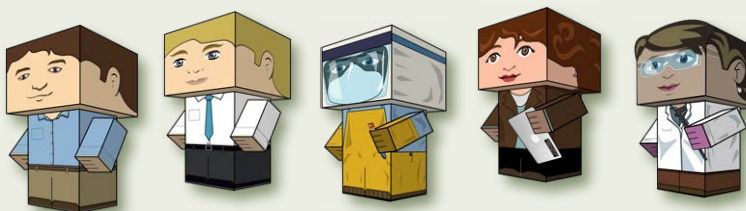


Digital Curriculum  
Powered by eDynamic Learning

### Flu Outbreak

#### Learning Blade Mission

In the Flu Outbreak Mission, students will learn how health and IT professionals leverage data, Geographic Information Systems (GIS), and social media analysis to predict flu outbreaks. This engaging mission highlights the exciting career pathways in Information Technology and Disease Management for middle school students.



Pair this mission with our Middle School Health course to introduce students to a wide range of career opportunities.



Digital Curriculum  
Powered by eDynamic Learning





# Education Career Cluster

Formerly Education and Training Career Clusters



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# Education

The Education Career Cluster spans careers aimed at fostering learning from early childhood to adulthood, covering areas like teaching, instructional design, counseling services, community engagement, learner support, and educator training. This cluster emphasizes quality educational standards and lifelong learning, preparing individuals for success through all life stages by nurturing knowledge, skills, and critical thinking, encouraging personal growth in a constantly evolving world.

## 2 sub-clusters & 5 career paths

eDynamic Learning partners with schools to deliver curriculum empowering students to gain industry knowledge that can lead to certifications.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Early Childhood Development



### Daycare Worker/Early Childhood Associate

A daycare worker/early childhood associate assists in the development and care of young children in educational and daycare settings, focusing on fostering learning and social skills.

**Certifications:** Certifications: Child Development Associate (CDA): Center-Based Infant-Toddler, Child Development Associate (CDA): Center-Based Preschool, Child Development Associate (CDA): Family Child Care, Child Development Associate (CDA): Home Visitor, ServSafe Manager



### Childcare Worker

A childcare worker looks after children's needs by providing a safe and nurturing environment, engaging them in educational and recreational activities, and supporting their overall development.

**Certifications:** NOCTI Family and Community Services, Broad Field Family and Consumer Sciences, ServSafe Manager



### Early Childhood Associate

An early childhood associate supports the education and development of young children, working alongside educators to create enriching learning experiences and environments.

**Certifications:** Child Development Associate (CDA): Center-Based Infant-Toddler, Child Development Associate (CDA): Center-Based Preschool, Child Development Associate (CDA): Family Child Care, Child Development Associate (CDA): Home Visitor, ServSafe Manager

# Teaching, Training & Facilitation



## Elementary Aide

An elementary aide supports teachers by assisting with classroom management, preparing materials, and providing individualized attention to students.

**Certifications:** NOCTI Education and Training



## Teaching Associate

A teaching associate aids in instructional delivery, supporting teachers by managing classrooms, facilitating lessons, and providing academic assistance to students.

**Certifications:** NOCTI Education and Training, NOCTI Family and Community Services





# Energy & Natural Resources Career Cluster



**eDynamic  
Learning**

# Energy & Natural Resources

The Energy & Natural Resources Career Cluster spans careers in traditional and renewable energy generation, utilities, environmental preservation and conservation, ecological research, and resource extraction. These industries focus on efficient and responsible resource management, aiming to minimize environmental impacts and meet global energy needs. An interconnected relationship exists with the Agriculture Cluster as practices in energy and resource management are directly influenced by agricultural production.

## 1 sub-clusters & 2 career paths

eDynamic Learning collaborates with schools to provide curriculum that equips students with industry knowledge and pathways to certification.



**Scan Here to View  
Specific Courses in  
each Career Track.**

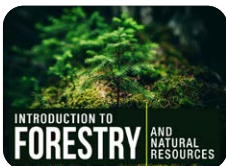


## Conservation & Parks



### Environmental Specialist

An environmental specialist analyzes and addresses environmental issues by developing strategies and policies to protect natural resources and ensure compliance with environmental regulations.



### Ecological Specialist

An ecological specialist studies ecosystems and biodiversity, conducting research and implementing conservation efforts to preserve and restore natural habitats and wildlife populations.



# Financial Services Career Cluster

Formerly Finance Career Cluster



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Learning**



# Financial Services

The Financial Services Career Cluster encompasses careers in managing and advising financial transactions, including banking, lending, corporate finance, debt management, accounting, insurance, and real estate. These careers contribute to economic stability and growth by supporting the financial health of individuals and organizations.

## 2 sub-clusters & 3 career paths

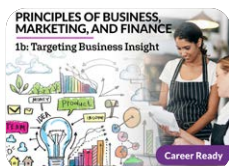
eDynamic Learning provides a digital curriculum that prepares students for industry-recognized certifications and equips them with the skills needed for high-demand, lucrative careers.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Banking & Credit



### Bank Clerk

A bank clerk handles routine financial transactions and customer inquiries in a bank, ensuring efficient and accurate processing of deposits, withdrawals, and other banking services.

**Certifications:** ASK Fundamental Business Concepts, MO-200: Microsoft Excel (Excel & Excel 2019), NOCTI Business Information Processing (Job Ready Assessment)



### Personal Finance

A personal finance advisor helps individuals manage their money by providing guidance on budgeting, investing, retirement planning, and financial goal-setting to ensure long-term financial stability and growth.

**Certifications:** NOCTI Personal Finance Foundations (Foundational)

## Financial Strategy & Investments



### Accounting Clerk

An accounting clerk performs routine financial tasks such as maintaining financial records, processing transactions, and assisting with accounts payable and receivable.

**Certifications:** ASK Fundamental Business Concepts, Intuit Certified Bookkeeping Professional, NOCTI Accounting Basics (Job Ready)

## Personal Finance Knowledge Matters Simulation

Get ready to transform your classroom and engage students as they manage essential tasks like shopping, find a job, and investing. Students will creatively develop the finance skills they need to enter the real world, on their own, with confidence. Your students will learn what it takes to be independent and successful in their every day lives. This simulation provides an array of lessons to match your unique curriculum.

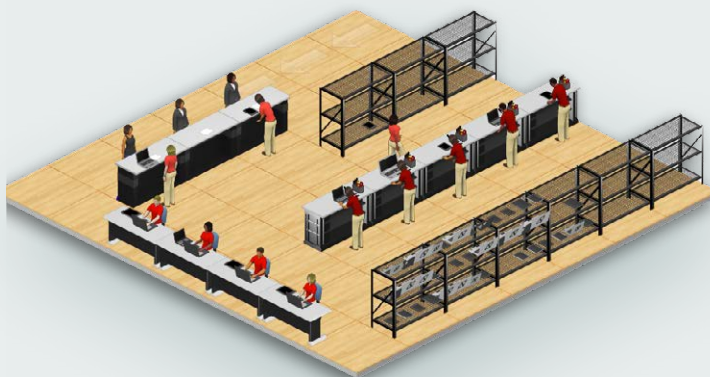


**Digital Curriculum**  
Powered by eDynamic Learning

Pair this simulation with our Personal Finance courses to give students a complete experiential learning experience.

## Accounting Knowledge Matters Simulation

This simulation brings accounting to life by allowing students to learn concepts using a business THEY run. Learning in context both encourages and motivates students to practice new skills in a meaningful way.



**Digital Curriculum**  
Powered by eDynamic Learning

Pair with our Accounting courses to give students a complete learning experience.





# Health & Human Services Career Cluster

Formerly Health Science and Human Services Career Clusters



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# Health & Human Services

The Health & Human Services Career Cluster paves the way to some of the most rewarding and in-demand careers, focusing on holistic well-being through diverse services. This cluster includes technical, mental, therapeutic, and personal care, supported by medical and social sciences. Students can explore roles that enhance the health and well-being of individuals and communities.

## 6 sub-clusters & 14 career paths

With eDynamic Learning, students are guided toward earning industry certifications and developing the skills needed for success.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Behavioral Health



### Counselor

A professional who provides guidance and support to individuals facing mental health challenges, helping them achieve emotional well-being and personal growth.

## Biotechnology Research & Development Pathway



### Biotechnician

This cutting-edge occupation combines biology and chemistry with technology to create improvements in our lives and in the world around us through the manipulation of living things

**Certifications:** Biotechnician Assistant Credentialing Exam (BACE) - Written Portion, NOCTI Biotechnology.

## Community & Social Services



### Social Services Specialist

Someone who helps individuals, families, and communities access and navigate various social services and resources to improve their well-being and address their social, emotional, and economic needs.

## Health Data & Administration



### Medical Assistant

Medical Assistant is one of the fastest-growing occupations due to the aging population and increased demand for preventative medical services.

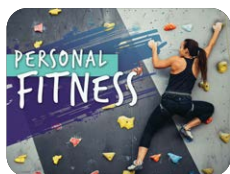
**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), AAMA Certified Medical Assistant (CMA), NHA Certified Clinical Medical Assistant (CCMA), NCCT National Certified Medical Assistant, NOCTI Medical Assisting

## Personal Care Services



### Cosmetologist

A professional who specializes in providing beauty services such as haircutting, coloring, styling, makeup application, skin care treatments, and nail care services.



### Fitness Trainer

Someone who develops and instructs individualized exercise programs to help clients achieve their fitness goals, improve their overall health and wellness, and adopt active lifestyles.

**Certifications:** ACSM Certified Personal Trainer, ACSM Certified Group Exercise Instructor, NASM Certified Personal Trainer (CPT), NCHSE Human Structure, Function, and Disease (A) & (B), NCHSE Foundations of Healthcare Professions

## Physical & Holistic Health



### Allied Health Assistant

Working directly with patients and their families provides opportunities to make a difference in the lives of others. Over the next decade, there will be a high demand for careers in this field.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), NOCTI Health Assisting



### Dietary Aide

A critical role in the healthcare and food service industries, focusing on assisting in meal preparation and ensuring proper nutrition for patients and residents.

**Certifications:** NCHSE Foundations of Healthcare Professions, NOCTI Family and Community Services, ServSafe Manager



### Dental Assistant

The rising demand for dental assistance is fuelled by the link between oral and overall health.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), NCHSE Dental Science I, NCHSE Dental Science II, NOCTI Dental Assisting



### EKG/ECG Technician

Due to an aging population and advances in medical technology, we will all utilize more medical tests in the future, making this a high-growth career.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), National Center for Competency Testing National Certified ECG Technician (NCET ECG), NOCTI Diagnostic Services, National Health Career Association Certified EKG Technician (CET)



## Emergency Medical Responder

Having quick response times and providing lifesaving interventions are essential duties for this rewarding career.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), National EMS Education Standards, NREMT Emergency Medical Technicians Psychomotor Examination, NOCTI Therapeutic Services



## Nursing Assistant

Nursing Assistants provide care and help with daily living activities. This rewarding career is expected to experience a faster-than-average future job growth.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), AMCA Nursing Assistant Certification, NHA Certified Patient Care Technician (CPCT), NOCTI Nursing Assistant



## Medical Lab Assistant

The high growth outlook of this career is fuelled by the aging baby-boomer population and increased demand for medical services.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), NOCTI Diagnostic Services



## Sports Medicine

Both physical fitness and communication play an important role in this occupation, fueled by the emphasis on healthier lifestyles.

**Certifications:** NCHSE Foundations of Healthcare Professions, ACSM Certified Personal Trainer, ACSM Certified Group Exercise Instructor, NASM Certified Personal Trainer (CPT), NCHSE Human Structure, Function, and Disease (A) & (B), NOCTI Nursing Assistant



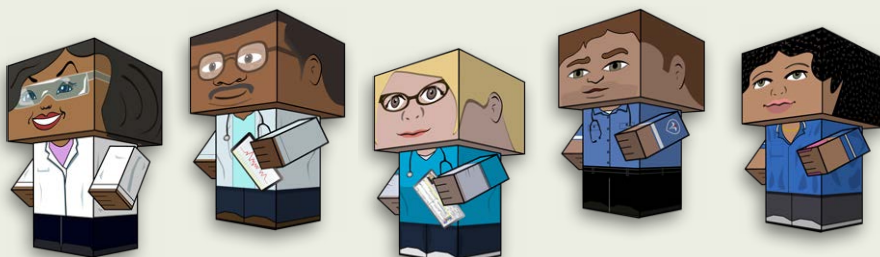
## Learning Blade

Powered by eDynamic Learning

## Heart Surgery

### Learning Blade Mission

In the Heart Surgery Mission, students will begin to understand heart surgery techniques and therapy used to treat a child's heart defect. This engaging mission for middle school students highlights the exciting career pathways in Healthcare and Medicine.



Pair this mission with our Middle School Exploring Health Science course to introduce students to a wide range of career opportunities.

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**Knowledge Matters**  
Powered by eDynamic Learning

## Dental Knowledge Matters Simulation

Enhance your Dental program with our Virtual Healthcare Dental simulation by Knowledge Matters. Through our simulation, students gain invaluable insights and a better understanding of how to fulfill typical dental assisting expectations, including triage and juggling various duties like office prep, admin, and scheduling. Set in a low-pressure virtual environment, students acquire a deeper understanding of striving for exceptional patient satisfaction and delivering quality care.



### DENTAL ASSISTANT

#### 1a: Introduction



Career Ready

### DENTAL ASSISTANT

#### 2a: Infection Prevention & Pharmacology



Career Ready



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Pair this simulation with our Dental Assistant courses to give students a complete experiential learning experience.

## Medical Assistant Knowledge Matters Simulation

Experience a day in the life of a healthcare provider. Students are taken out of the abstract and put into the reality of a medical office, allowing them to gain a better understanding of how to fulfill duties typical of a medical assistant. From checking in patients to point-of-care testing, blood draws, medication administration, responding the emergency situations, and working with diverse patients with varied needs, students will gain confidence in their ability to provide quality patient care.



### MEDICAL ASSISTANT

#### 1a: Introduction



Career Ready

### MEDICAL ASSISTANT

#### 1b: Medical Assisting in Action



Career Ready



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Pair this simulation with our Medical Assistant courses to give students a complete experiential learning experience.





# Hospitality & Events Career Cluster

Formerly Hospitality and Tourism Career Clusters



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Learning**

# Hospitality & Events

The Hospitality & Events Career Cluster encompasses a broad range of services and experiences related to food and beverage, lodging, travel, events, and conferences. This cluster focuses on delivering quality customer service, memorable experiences, and seamless logistics to cater to the needs and preferences of guests, travelers, and event participants. This sector is characterized by its diversity, including everything from luxury hotels and international travel to local dining, cultural events, and business conferences, aiming to enhance the overall experience of visitors and attendees.

## 3 sub-clusters & 5 career paths

eDynamic Learning collaborates with schools to provide curriculum that equips students with industry knowledge and pathways to certification.



Scan Here to View  
Specific Courses in  
each Career Track.



## Accommodations



### Hotel Manager

A hotel manager oversees all operations of a hotel, ensuring high standards of service, managing staff, and maximizing guest satisfaction and profitability.

**Certifications:** NOCTI Hospitality Management Lodging, AHLEI Hospitality & Tourism Specialist Credential (HTS), ServSafe Manager.



### Front Desk Agent

A front desk agent assists guests with check-in and check-out procedures, handles reservations, and provides information and support to ensure a pleasant stay.

**Certifications:** NOCTI Hospitality Management Lodging, AHLEI Hospitality & Tourism Specialist Credential (HTS).

## Conferences & Events



### Promoter

A promoter plans, markets, and organizes events, coordinating logistics and working with vendors to attract attendees and ensure successful outcomes.



# Culinary & Food Services



## Kitchen Associates – Sous Chef

A sous chef supports the head chef in culinary operations, overseeing kitchen staff, managing food preparation, and ensuring high-quality dishes.

**Certifications:** CIA ProChef Level 1, FCS Culinary Arts Certification, ServSafe Manager



## Food & Beverage Manager

Chef or Head Cook: A chef or head cook directs kitchen operations, creating menus, managing kitchen staff, and ensuring the preparation of high-quality meals.

**Certifications:** CIA ProChef Level 1, FCS Culinary Arts Certification, ServSafe Manager



**Knowledge Matters**

Powered by eDynamic Learning

## Hotel Knowledge Matters Simulation

Students are empowered to take over the management of a full-service hotel. Developed with the support of the J. Willard and Alice S. Marriott Foundation, the online simulation draws on industry experts to model the inner workings of a hotel. Students learn the hourly and daily business decisions that go into running a high-end, successful hotel. This sim is ideal for teaching hospitality, marketing, management, finance, and introduction to business.



Pair this simulation with our our Hospitality & Tourism courses to give students a complete learning experience.



**Digital Curriculum**  
Powered by eDynamic Learning

## Restaurant Knowledge Matters Simulation

Our restaurant simulation introduces students to the real-world decisions involved in running a successful restaurant. Through interactive decision-making, students take on critical tasks, from designing the menu to optimizing the restaurant's floor plan. Along the way, they'll discover key business strategies that drive success—and pitfalls that can lead to closure. This hands-on experience provides valuable insights into the dynamic world of restaurant management, preparing students for future careers in the industry.



Pair this simulation with our Management courses to give students a complete experiential learning experience.



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# Management & Entrepreneurship Career Cluster

Formerly Business Management & Administration Career Clusters



**eDynamic  
Learning**



# Management & Entrepreneurship

The Management & Entrepreneurship Career Cluster involves skills and occupations that are essential across all industries, focusing on optimizing operations, strategic planning, and workforce management. It merges key areas such as accounting, data management and analysis, human resources, general operations, project management, and leadership. This cluster ensures businesses of all sizes and types efficiently meet their goals, adapt to market changes, and maintain competitive advantage.

## 5 sub-clusters & 7 career paths

eDynamic Learning delivers a digital curriculum that guides students toward earning industry certifications.



Scan Here to View  
Specific Courses in  
each Career Track.



## Business Management & Operations



### Administrative Specialist

An administrative specialist performs various office tasks, such as organizing files, managing schedules, and assisting with communications, to support the efficient operation of an organization.

**Certifications:** ASK Fundamental Business Concepts, American Standard Typing, NOCTI Administrative Assisting (Job Ready Assessment), NOCTI Business Information Processing (Job Ready Assessment), NOCTI Administrative Services (Pathway Assessment)



### Medical Office Administrative Specialist

A medical office administrative specialist manages administrative tasks in a healthcare setting, including patient scheduling, medical records management, and billing support.

**Certifications:** ASK Fundamental Business Concepts, American Standard Typing, NHA Certified Medical Administrative Assistant (CMAA), National Certification Medical Office Assistant (NCMOA), NOCTI Administrative Services (Pathway Assessment), NOCTI Business Information Processing (Job Ready Assessment)



### Manager

A manager oversees a team or department, setting goals, coordinating activities, and ensuring that operations align with the organization's objectives.

**Certifications:** ASK Fundamental Business Concepts, ASK Concepts of Business Management, ASK Fundamentals of Ethics, NOCTI General Management (Pathway Assessment)





## Human Resources Associate

A human resources associate supports HR functions, such as recruiting, onboarding, employee relations, and benefits administration, to maintain a productive and satisfied workforce.

**Certifications:** ASK Fundamental Business Concepts, Associate Professional in Human Resources - HR Certification Institute, NOCTI Human Resources Management Pathway

## Business Information Management



### Business Information Specialist

A business information specialist manages and analyzes data to support business decisions, ensuring that accurate and relevant information is available for strategic planning.

**Certifications:** MO-200: Microsoft Excel (Excel & Excel 2019), MO-500: Microsoft Access Expert (Access & Access 2019), NOCTI Business Information Processing (Job Ready Assessment)

## Entrepreneurship & Small Business



### Entrepreneur

An entrepreneur creates and manages a new business venture, taking on financial risks and responsibilities to innovate and bring new products or services to market.

**Certifications:** ASK Fundamental Business Concepts, ASK Concepts of Entrepreneurship, Entrepreneurship & Small Business (ESB), NOCTI General Management (Pathway Assessment)

## Regulation



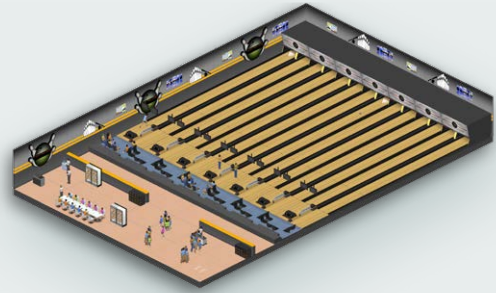
### Legal Administrative Specialist

A legal administrative specialist provides administrative support in a legal setting, managing documents, scheduling, and assisting lawyers with case preparation and client communications.

**Certifications:** ASK Fundamental Business Concepts, Brainbench Legal Secretarial Skills, NOCTI Administrative Services (Pathway Assessment), NOCTI Business Information Processing (Job Ready Assessment), NOCTI Legal Services (Pathway Assessment)

## Entrepreneurship Knowledge Matters Simulation

Turn your classroom into a startup incubator - students have 20 different businesses that they can launch and grow as they learn the fundamentals of entrepreneurship. Visually immersive simulations will teach your students the fundamentals of building and growing an entrepreneurial business – market research, elevator pitch, business plan, raising money, and so much more.



Pair this simulation with our Entrepreneurship courses to give students a complete experiential learning experience.

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## Management Knowledge Matters Simulation

Give your students the chance to be the boss of their own company! In this simulation, students begin by managing a small facility and controlling limited factors. As they grow in business knowledge, they can lease as much space as they want and grow into manufacturing giants.

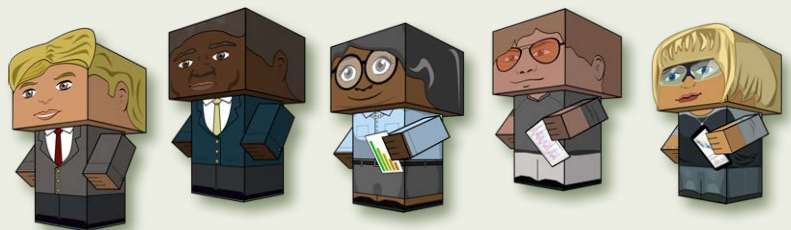


Pair this simulation with our Management courses to give students a complete experiential learning experience.

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## Entrepreneurship Learning Blade Mission

In the Entrepreneurship Mission, students will learn how to set up a new business with a focus on entrepreneurship. Early Exposure through Learning Blade Missions introduces middle school students to entrepreneur and management concepts early, building a solid foundation for high school courses.



Pair this mission with our Middle School Exploring Business course to introduce students to a wide range of career opportunities.

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# Marketing & Sales Career Cluster

Formerly Marketing & Public Administration Career Clusters



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# Marketing & Sales

The Marketing & Sales Career Cluster focuses on promoting products, understanding consumer needs, engaging with communities, and driving sales. It integrates digital marketing, data analysis, brand promotion, customer relationship management, human-centered design, and retail strategies to build strong customer connections and support business growth. This cluster is essential for creating value, ensuring public transparency, and achieving commercial success in a competitive marketplace.

## 2 sub-clusters & 5 career paths

eDynamic Learning provides digital curriculum that prepares students for industry-recognized certifications and equips them with the skills needed for lucrative careers.



**Scan Here to View  
Specific Courses in  
each Career Track.**



## Marketing & Advertising



### Digital Marketing Specialist

A digital marketing specialist focuses on executing specific online marketing tactics, such as managing social media accounts, optimizing web content for search engines, and running email marketing campaigns to drive engagement and sales.

**Certifications:** ASK Fundamental Business Concepts, ASK Fundamental Marketing Concepts, CIW Social Media Strategist



### Marketing Specialist

A marketing specialist develops and implements strategies to promote products or services, analyzing market trends and customer behavior to optimize campaigns.

**Certifications:** ASK Fundamental Business Concepts, ASK Fundamental Marketing Concepts, MBA Research Standard Marketing



### Digital Marketing Strategist

A digital marketing strategist develops and implements comprehensive online marketing plans to achieve business objectives, utilizing data analysis, SEO, content marketing, social media, and other digital channels.

**Certifications:** ASK Fundamental Business Concepts, ASK Fundamental Marketing Concepts, CIW Social Media Strategist

## Strategic Sales



### Marketing Communications Specialist

A marketing communications specialist creates and manages content to communicate a brand's message across various channels, enhancing public awareness and engagement.



## Sales Representative

A sales representative engages with potential customers to sell products or services, building relationships and negotiating deals to meet sales targets.

**Certifications:** ASK Fundamental Business Concepts, AMA: Sales Management



**Knowledge Matters**  
Powered by eDynamic Learning

## Retailing Knowledge Matters Simulation

This simulation teaches students the business basics and exposes the secrets of retailing. Students learn the tough business decisions that impact their common shopping experiences—why stores are located where they are, how stores decide to price products, and more.



Pair this simulation with our Marketing courses to give students a complete experiential learning experience.



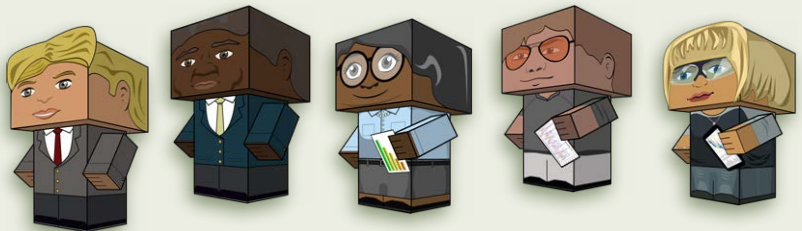
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**Learning Blade**  
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## Entrepreneurship Learning Blade Mission

In the Entrepreneurship Mission, students will learn how to set up a new business with a focus on entrepreneurship. Early Exposure through Learning Blade Missions introduces middle school students to entrepreneur and management concepts early, building a solid foundation for high school courses.



Pair this mission with our Middle School Exploring Business course to introduce students to a wide range of career opportunities in business.



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# Public Service & Safety Career Cluster

Formerly Law, Public Safety, Corrections & Security, Government & Public Administration Career Clusters



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# Public Service & Safety

The Public Service & Safety Career Cluster encompasses roles in local, state, and federal government, legal and justice systems, security, and military operations, all aimed at promoting civic responsibility, and ensuring the well-being, security, and functionality of communities, states, and countries.

## 4 sub-clusters & 9 career paths

eDynamic Learning offers digital courses that help students achieve industry-recognized certifications and build the skills necessary for thriving in high-demand, high-wage careers.



Scan Here to View  
Specific Courses in  
each Career Track.



## Emergency Response



### Emergency Medical Responder

Having quick response times and providing lifesaving interventions are essential duties for this rewarding career.

**Certifications:** NCHSE Foundations of Healthcare Professions, NCHSE Human Structure, Function, and Disease (A) & (B), National EMS Education Standards, NREMT Emergency Medical Technicians Psychomotor Examination, NOCTI Therapeutic Services

## Judicial Systems



### Legal Assistant

A legal assistant supports lawyers by conducting research, drafting documents, organizing files, and managing communication with clients and courts.



### Legal Administrative Specialist

A legal administrative specialist provides administrative support in a legal setting, managing documents, scheduling, and assisting lawyers with case preparation and client communications.

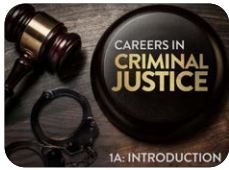
**Certifications:** ASK Fundamental Business Concepts, Brainbench Legal Secretarial Skills, NOCTI Administrative Services (Pathway Assessment), NOCTI Business Information Processing (Job Ready Assessment), NOCTI Legal Services (Pathway Assessment)

## Local, State & Federal Services



### Public Servant

A public servant works in government roles to implement policies, provide public services, and contribute to the efficient functioning of governmental operations.



## Agent/Specialist

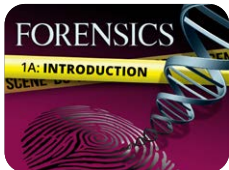
An agent or specialist enforces laws and regulations, investigates criminal activities, or provides specialized services in areas such as homeland security or intelligence.



## Program Administrative Specialist

A program administrative specialist manages and coordinates specific programs within public service organizations, ensuring they run efficiently and meet their objectives.

## Public Safety



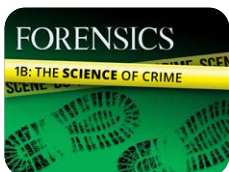
## Criminologist

A criminologist studies the causes, consequences, and prevention of criminal behavior, analyzing data and conducting research to understand crime patterns and develop effective strategies for reducing crime and enhancing public safety.



## Security Officer

A security officer protects people and property by monitoring premises, responding to incidents, and enforcing safety protocols.



## Officer/Investigator

An officer or investigator conducts criminal investigations, gathers evidence, interviews witnesses, and works to solve crimes and enforce the law.



## Learning Blade

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## Flu Outbreak Learning Blade Mission

In the Flu Outbreak Mission, students will learn how health and IT professionals leverage data, Geographic Information Systems (GIS), and social media analysis to predict flu outbreaks. This engaging mission highlights the exciting career pathways in Information Technology and Disease Management for middle school students.



Pair this mission with our Middle School Health course to introduce students to a wide range of career opportunities.



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## Impacting **hundreds of thousands** of students



Virtual Business Simulations are used in over **1/3** of all the high schools in the USA



**71%** of students learned about new career opportunities through Learning Blade



**4+/5** star student feedback on Digital Curriculum