

Auto Service



Dental Science

Cosmetology

**DeKalb High School of Technology
Connecting Courses to careers**

Manufacturing

North Campus

Construction

**Criminal
Justice**

**Computer
Science**

**HealthCare
Science**



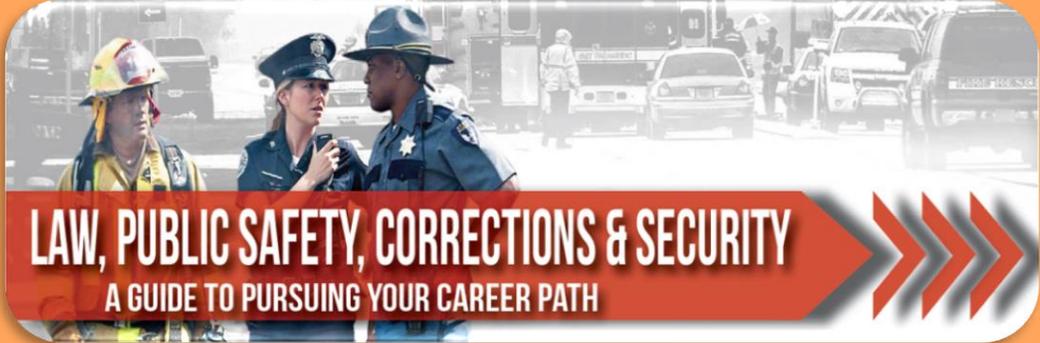
Welcome

Pursue Your Careers in DHST NORTH Programs of study



INFORMATION TECHNOLOGY

A GUIDE TO PURSUING YOUR CAREER PATH



LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

A GUIDE TO PURSUING YOUR CAREER PATH



MANUFACTURING

A GUIDE TO PURSUING YOUR CAREER PATH



ARCHITECTURE & CONSTRUCTION

A GUIDE TO PURSUING YOUR CAREER PATH



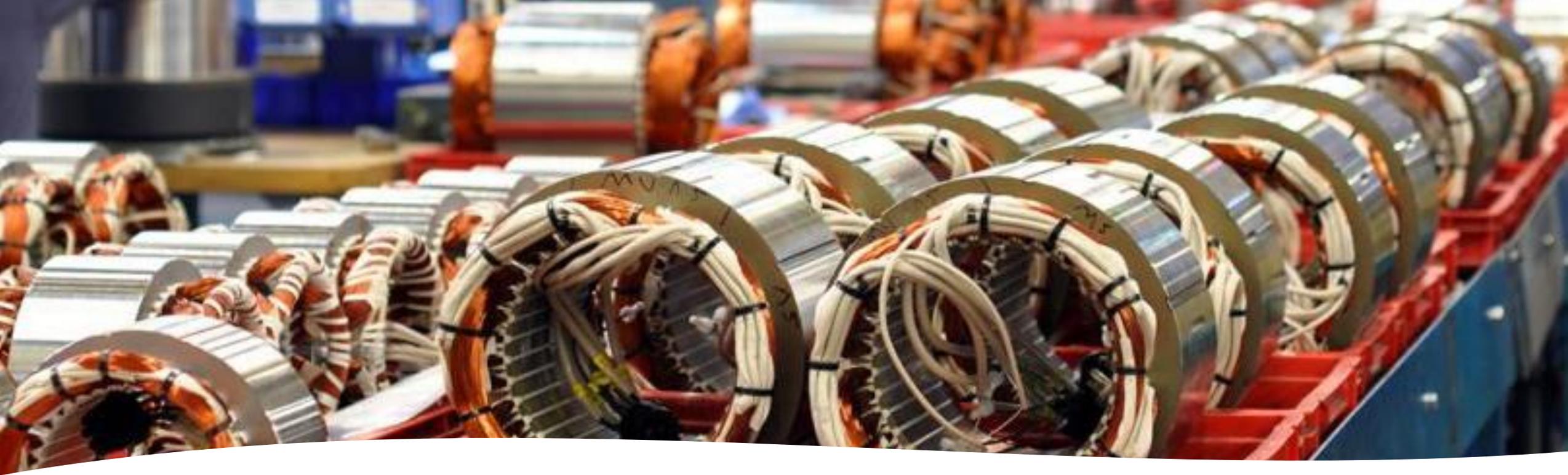
HEALTHCARE SCIENCE

A GUIDE TO PURSUING YOUR CAREER PATH



HUMAN SERVICES

A GUIDE TO PURSUING YOUR CAREER PATH



Advanced Manufacturing Pathway

Course Sequence:

- Foundations of Manufacturing & Materials Science
- Robotics and Automation
- Production Enterprises
- Research, Design, & Project Management

Good news: A career in manufacturing has what many people want

Good benefits: US manufacturing jobs offer health benefits to its employees. US manufacturers have one of the highest percentages of workers (92 percent in 2015) who are eligible for health benefits provided by their employer. Of those who are eligible, 84 percent actually participate in their employers' health benefit plans. (Source: National Association of Manufacturers)

Better pay: In 2015, the average manufacturing worker in the United States earned \$81,289 annually, including pay and benefits, compared to \$63,830 earned by an average worker in other industries. (Source: Bureau of Economic Analysis and Bureau of Labor Statistics)

Interesting and rewarding work: Manufacturing jobs invoke the need for continuous innovation. Manufacturers in the United States perform more than three-quarters of all private-sector research and development (R&D) in the nation, driving more innovation than any other sector. Specifically, advanced manufacturing and technology industries generate 85 percent of all US patents and employ 80 percent of the nation's engineers. (Source: Bureau of Economic Analysis and Deloitte)

Advanced Manufacturing Pathway

1. Connectivity, data, computational power

Sensors
Internet of Things
Cloud technology
Blockchain



3. Human-machine interaction

Virtual and augmented reality
Robotics and automation
(collaborative robots, AGVs¹)
RPA,² chatbots



2. Analytics and intelligence

Advanced analytics
Machine learning
Artificial intelligence



4. Advanced engineering

Additive manufacturing (eg, 3D printing)
Renewable energy
Nanoparticles

¹Autonomous guided vehicles
²Robotic process automation





- ❑ Introduction to Healthcare Science (Dental)
- ❑ Essentials of Dental Science
- ❑ Dental Science II
- ❑ Dental Science Internship
 - ❑ Health Informations/Office Management

Dental Science Technology

Dental Science Careers



Dentist

Dental Assistant*

Dental Hygienist

Office Manager

Dental Receptionist*

Insurance Coordinator

Sales Representative

Lab Technician



- ❑ Competitive Events
 - ❑ Leadership
 - ❑ Endless Opportunities
-

Allied Health and Medicine

- Offers the student the opportunity to become **Certified as Medical Assistants (Administrative and Clinical)**.
- Provides foundation applications for the ***Nursing Pathway*** which includes
 - Nursing Assistant,
 - medical assistants,
 - patient care technicians
 - and other associated careers.

**Students will perform advanced technical skills within medical office services to become Certified Medical Office Assistants (MOA) or (CCMA)*



ALLIED HEALTH AND MEDICINE

Four Level of Courses

- **Introduction to Healthcare Science** is the foundational course for all Health Science pathways and is a prerequisite for all other Healthcare Science pathway courses. This course will enable students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry.
- **The Essentials of Healthcare** is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system.

ALLIED HEALTH AND MEDICINE

Allied Health and Medicine is designed to offer students (preferably upper classmen - juniors or seniors) the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities.

hosa future
health
professionals

Health Information Management Medical Office

- The course provides students with medical office computer and software skills that include hardware and software components of computers for medical record applications; database software and information management; specialized information management systems in healthcare; methods of controlling confidentiality and patient rights; and accuracy and security of health information data in computer systems.

Employment Opportunities

- Medical Office Assistant- Ortho Atlanta
- Medical Office Receptionist-Northside Hospital
- Medical Office Assistant-Atlanta Eye Consultants/PC
- The average medical office assistant's salary is \$28,151.**
- Job growth-Nineteen percent from 2019 to 2029***
- * Indeed.com
- ** Simply hired. (2020, Jan. 9).
- *** Bls.gov





CONSTRUCTION

... is WHERE WE PLAY...





LEARN ABOUT THE

CONSTRUCTION PATHWAY

DEKALB HIGH SCHOOL OF TECHNOLOGY NORTH



Construction

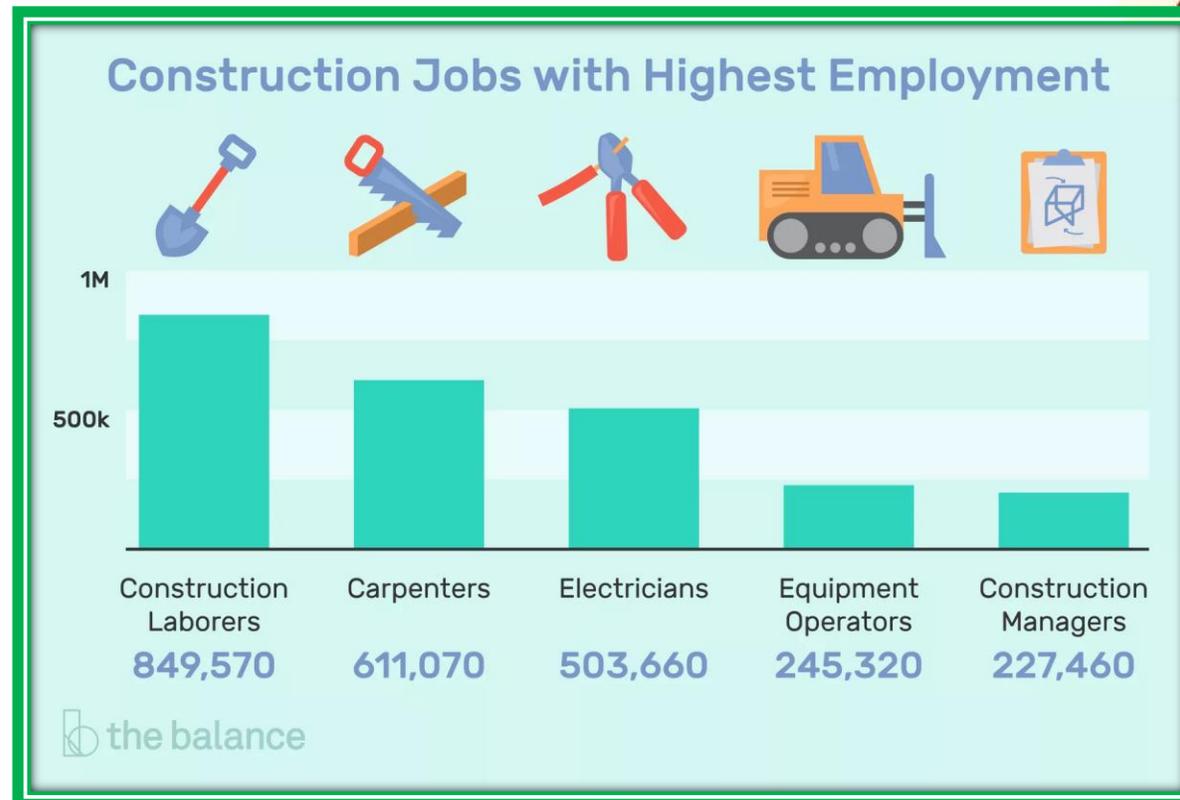
This course is composed of various occupations that deal with the construction of many types of structures.

They include residential wiring, plumbing, carpentry, brick and block masonry, and cement finishing. Many of the processes used in residential construction will be contained in this course.

SOME INTERESTING FACTS AND FIGURES ABOUT CONSTRUCTION

- The construction industry employed 7,466,000 workers in March 2021, according to the Bureau of Labor Statistics (BLS).

CTSO



WHAT MAKES IT AN EXCITING CAREER?

- Enter at any level from apprentice to Licence Journeyman
- Well paid with job satisfaction - "I built that!"
- Freedom to start your own business

COMPANIES

JANNING-JOHNSON



TRY CONSTRUCTION PATHWAY
@ DEKALB HIGH SCHOOL OF
TECHNOLOGY NORTH



CLEVELAND

Electrical | Mechanical | Technology | Service



Automotive Service Technology



Automotive service provides entry level training for the fast track into careers within the repair market.

Our employers expect highly trained techs to fill their positions with mastery of skills required to provide customer satisfaction and profitability. A few of our employers include:

- Hennessy Automotive Group
- Pull-A-Part North America
- S and W auto parts
- NAPA
- Parts Authority
- AutoZone
- Oreily's Auto Part
- MADA(Jim Ellis group)
- Penske lease trucks
- U-Haul

Some employers will pay for technical degrees including ASE certifications.

AST Instructional Achievement



Students in this course will learn the basic skills needed to gain employment as a maintenance and light repair technician.



Students will be exposed to courses in automotive preventative maintenance and servicing and replacing brakes and steering and suspension components.



Student will learn how to do general electrical system diagnosis, learn electrical theory, perform basic tests and determine necessary action. I



Students will learn how to conduct E-commerce sales effectively recycle materials for profit. Minimize carbon foot print for future generations.



The hours completed in this course are aligned with ASE/NATEF standards and are a base for the entry-level technician.

Introduction to Law, Public, Safety, Corrections and Security

- Examines the basic concepts of law related to citizens' rights and the responsibilities, Instruction in critical skill areas:
 - Communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training, basic report writing, terrorism, civil and criminal law.



Criminal Justice Essentials



- Overview of the criminal justice system
- Historical perspectives of the origin of the system
- Overall structure
- Criminal and constitutional law
- Basic law enforcement skills



Forensic Science and Criminal Investigations



- Forensic application of principles of chemistry, biology, physics and other disciplines.
- Students will utilize chromatography, electrophoresis, microscopic observation, and other scientific techniques in their studies.
- Investigative techniques and crime scene investigation skills through the lens of the scientific method.



THIS COURSE INTRODUCES BOTH FUNDAMENTAL THEORY AND PRACTICES OF THE PERSONAL CARE PROFESSIONS. EMPHASIS WILL BE PLACED ON PROFESSIONAL PRACTICES AND SAFETY.

Students will take the following courses:

- Intro To Personal Care Services
- Cosmetology Services II
- Cosmetology Services III

HANDS ON LABS

GROUP PROJECTS

FIELD TRIPS

ANNUAL HAIR SHOW



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Editorial Stylist

Cosmetology Instructor

Hairstylist

ANNUAL HAIR SHOW



IT-Computer Science

Programming

- Introduction to Digital Technology
- Computer Science Principles
- Programming, Games, Apps, and Society
- Web Development



CTSO

- ❖ The course introduces students to computing and how hardware and software interact.
- ❖ Courses incorporates programming languages, Microsoft office applications and web technologies



Certifications & Careers

- The course offers certifications in:
 - Computer Programming in Python
 - Certificate in Web Developer
 - Microsoft Office Specialist

Certifications lead to career opportunities for students



Computer Science Career Options

- ❖ Software Development Engineer.
- ❖ Software Developer.
- ❖ Information Security Analyst.
- ❖ Database Administrator.



\$127,938

\$107,510

\$99,730

\$93,750