



Warren Tech  
Home of  
the Knights



2016-17

GO KNIGHTS!

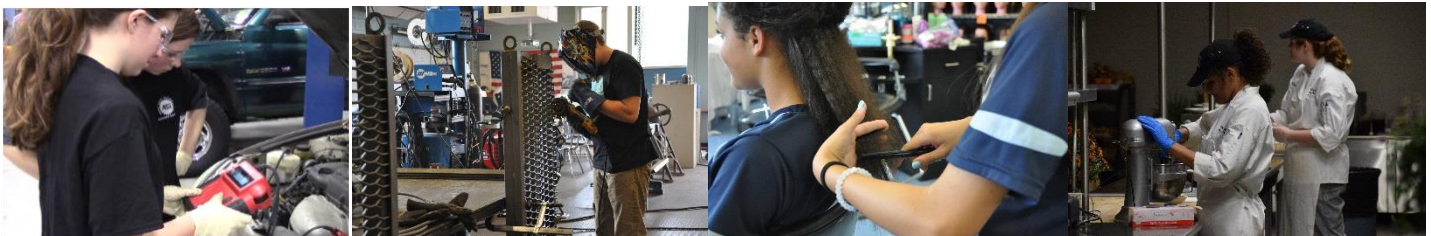
1500 RT. 57, WASHINGTON, NJ 07882

## WARREN COUNTY TECHNICAL SCHOOL



Warren County Technical in Washington, NJ prepares students with the skills that employers are looking for. While the costs of college education continually rise and the job market becomes increasingly flooded with college graduates who are struggling to set themselves apart, it is becoming increasingly important for today's high school students to develop marketable skills that employers need, along with their college preparations. Warren Tech prepares students with these in demand career skills and its graduates take these skills to enter the workforce and to enter college programs.

Graduates of Warren Tech can work their way through college relying on the skills, licenses, certifications, and experience that Warren Tech provided them. In conjunction with the career training Tech also offers Dual Enrollment, Advanced Placement and College Prep Courses to ensure students are marketable for both careers and college programs. Warren Tech offers real-life, hands on career training in [Automotive Technology](#), [Building Technology](#), [Business Management](#), [Child Development](#), [Cinematography](#), [Computer Programming](#), [Cosmetology](#), [Electrical Applications](#), [Electronics](#), [Graphic Arts](#), [Hospitality & Culinary Arts](#), [General Engineering](#), [Health Science](#), [Law & Public Safety](#), [Performing Arts](#), and [Welding](#).



# Why Warren Tech?

Warren County Technical School stands out because it offers specialized career training that prepares students with the specific skills that employers need, in addition to its traditional high school program that prepares students for college.

## Hands On

Students enrolled at Warren Tech run restaurants, auto shops, and cosmetology salons, build full size structures, design products, sell products, and more. They learn how to use modern equipment and technology that is used in industry today. The hand's on training in these career areas cannot be mimicked in a traditional classroom setting. Students at Warren Tech are prepared to begin earning a paycheck as they gain licenses, certifications, and build networks with professionals.

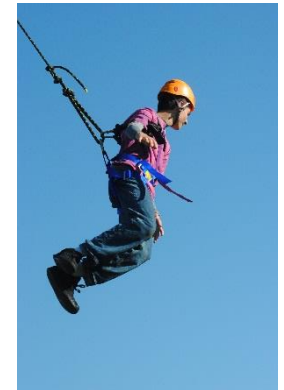


## Career & College Readiness

In addition to the career training that Warren Tech offers, the school also offers a traditional high school curriculum that prepares students for college. Warren Tech has several Dual Enrollment and Articulation Agreements in place with colleges and universities including Warren County Community College, Rutgers, NJIT, and more. Tech also offers Advanced Placement, Honors, and College Prep courses.

## Activities

Students at Warren Tech have the opportunity to compete on any of our 10 sports teams, join a number of clubs and activities, participate in our musicals and plays, go to prom and winter gala, use our project adventure course, become a member of several National Honor Societies, compete in SKILLS USA and more.



### CLUBS & ACTIVITIES

Warren Tech has many clubs and activities for students to participate in, including Key Club, Student Government, Gamers Club, and many more.



# Warren Tech



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# Warren Tech Automotive Technology



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AUTOMOTIVE TECHNOLOGY

## WARREN TECH AUTOMOTIVE TECHNOLOGY

The Automotive Technology Career Academy is a comprehensive program that incorporates all aspects of the automobile. Students explore automotive systems and their components and learn how to apply automotive operating principles and diagnose malfunctions. Students develop skills in service, repair, and diagnostic procedures.

This ASE (Automotive Service Excellence) certified shop provides the opportunity for students to prepare for college and trade schools as well as the

workforce. Student can earn industry certifications from ASE, compete in Skills USA competitions, and gain hands on experience. The Warren Tech Automotive shop features an agreement with Warren County Community College that enables students to continue their education at WCCC where they can earn an Associate Degree in Automotive Technology.



### Certifications & Licenses

Students in the Automotive Technology Career Academy can earn up to 10 industry recognized certifications from ASE (Automotive Service Excellence).



### Hands-on Experience

Students in the Automotive Technology Career Academy gain hands on experience working in a state of the art facility and equipment.

## Pathways in Automotive Technology

The Warren Tech Automotive Technology Career Academy has a variety of pathways available for students to pursue: College Prep, the Workforce, Trade Schools and the Military.

### College Prep

Students enrolled in Automotive Technology classes at Warren Tech are prepared to continue their education through a partnership with Warren County Community College.

### Trade Schools

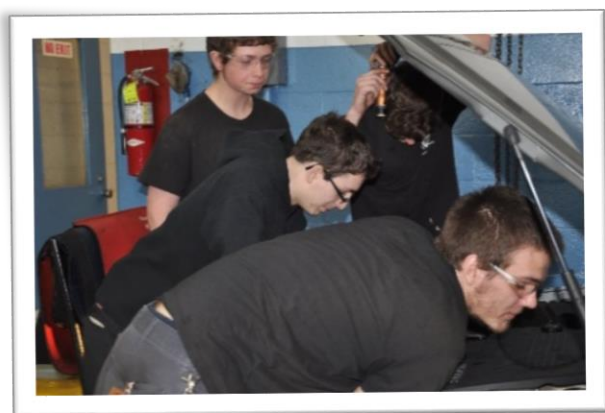
Warren Tech automotive students are also introduced to various automotive trade schools and are prepared to continue their education at one of the schools should they choose this pathway. Past Warren Tech graduates from this program have gone on to Universal Technical Institute (UTI), Lincoln Tech, and BMW Service Technician Education Programs.

### Work Force Ready or Military

Automotive Technology students are also prepared to enter the workforce out of High School. Warren Tech Automotive provides students with the skills they would need to begin a career as a technician. By obtaining Automotive Service Excellence (ASE) certifications in the program students are very marketable for careers. Successful students in this pathway also have the opportunity to begin working through our CIE program that allows them the opportunity to begin working while in high school. Automotive Technology students also have the option to pursue military careers. Students will obtain skills that could be used to pursue options as a military mechanic.

### WORK EXPERIENCE

Students in the Business Management program gain hands on business experience through the operation of The Armory school store.



### SKILLS USA

Students in the Automotive Technology Program can hone their skills while competing in SKILLS USA in various competitions such as Automotive Service Technology.

## Warren Tech Automotive Technology



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# Warren Tech Building Technology 2016-17



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BUILDING TECHNOLOGY

## WARREN TECH BUILDING TECHNOLOGY

The Building Technology program at Warren Tech is a comprehensive course of study that incorporates all aspects of building. Students explore a full range of construction trades gaining skills in blueprint reading, masonry and foundations, carpentry and framing, siding, roofing, and finish work such as spackling, painting, flooring, and millwork.

Students are exposed to the entire construction project from pouring a foundation to the finish work. This program helps students gain a solid grasp of the entire construction field. Students begin with an introduction to hand tool skills and the applied safety measures.

At the completion of the four years in Carpentry, students will have successfully achieved the skills to work in a variety of construction fields.

Students in this program are also able to obtain industry certifications such as the S/P2 Safety & Pollution Prevention Training.



### Technology & Equipment

Students in Building Technology are introduced to the proper and safe use of industry tools, technology, and equipment.



### Large Scale Projects

Students in this program build large scale projects that incorporate many facets of construction to include masonry, framing, siding, roofing, and finish work.

# Pathways in Building Technology

The Warren Tech Building Technology Career Academy has a variety of pathways available for students to pursue: College Prep, Trade Schools, Entrepreneurship, Military Service, Union opportunities, and the Workforce.

## College Prep, Trade Schools, & Entrepreneurship

Students enrolled in the Building Trades Academy at Warren Tech can begin preparing for two or four year college programs by pairing their shop program with college prep courses.

Building Technology students in this pathway are also prepared with the construction skills necessary to start them on the path of owning their own construction company. Students considering entrepreneurship are encouraged to explore post-secondary education opportunities in Business to pair with the construction skills developed at Warren Tech.

Students in this pathway also have the opportunity to prepare for trade schools such as Triangle Tech.

## Work Force Ready

Students in the Building Technology Academy are also prepared to pursue jobs upon graduating from Warren Tech. Students in this pathway will develop in demand construction skills that can help them obtain employment with union and independent contractors or in the home improvement and construction supplies retail industry. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.



## SKILLS USA

Students in Building Technology have the opportunity to compete in SKILLS USA in various competitions to include carpentry, masonry, and more.

## JOB PLACEMENT

Students in this pathway will develop in demand construction skills that can help them obtain employment. Structured Learning Environment (SLE) work opportunities exist for students during the school day.



# Warren Tech Building Technology

*"The Building Tech program is great. I get to build full scale, live projects and I'm excited for the career in construction that this program prepared me for."*

*~ B. Corales, Class of 2017*

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# Warren Tech Business Management



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BUSINESSES MANAGEMENT

## WARREN TECH BUSINESS MANAGEMENT

### Overview

The Business Management Academy at Warren County Technical School is a four year program designed to prepare students for college business programs, the workforce, and entrepreneurship. Students have the opportunity to earn dual enrollment credit from Warren County Community College.

The program introduces students to a variety of career options available in today's workforce. Students follow a sequence of courses designed to introduce skills in economics, business organization, entrepreneurship and small business management, human resources, marketing, financial management,

production, risk management, accounting, and business law.

Business management students will have the opportunity to pass industry certification exams from the SKILLS USA Workforce Ready system in Customer Service and Employability.

Program highlights include dual enrollment credit, certifications and licenses, hands on experience and the opportunity to compete in SKILLS USA.



### College Credit

Students in the Business Management program will have the opportunity to earn college business credit through Warren County Community College in Business Organization and Accounting.



### Certifications & Licenses

Students will be afforded the opportunity to obtain industry certifications through SKILLS USA, NOCTI, and/or A.S.K Business Institute. Certifications are available in Employability, Customer Service, Fundamental Business Concepts, Accounting, and more.

# Pathways in Business Management

The Warren Tech Business Management Career Academy has three pathways available for students to pursue: College Prep, the Workforce, and Entrepreneurship.

## College Prep

Students enrolled in the Business Management Academy classes at Warren Tech will be dual enrolled with Warren County Community College and can earn up to six college credits in business. Current credits are available in Accounting and Business Organization and Management. Students in this track are prepared for two and four year college programs.

## Entrepreneurship

The Business Management Program at Warren Tech prepares students for Entrepreneurship. Students in the program create a business plan, a marketing pitch, and have the opportunity to test their idea in the SKILLS USA Entrepreneurship Competition. Students in this track are focused on starting their own business either after high school or college.

## Work Force Ready

Students in the Business Career Academy also have the track of preparing for the workforce. Students in this pathway will focus on becoming employed directly after high school. Jobs in retail settings and administrative jobs are the norm. Students in this pathway will focus on customer service, employability, and resume writing.

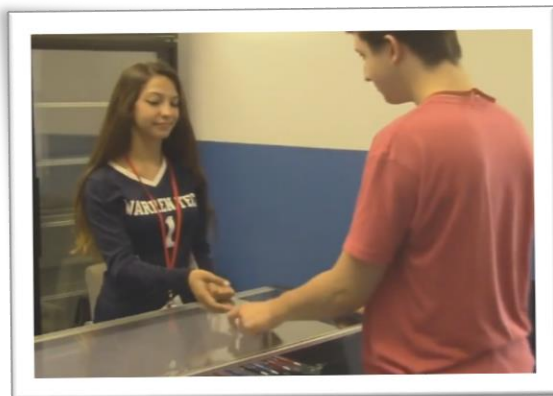


## SKILLS USA

Students in the Business Management Program can hone their business skills while competing in SKILLS USA in various competitions to include Entrepreneurship, Job Interview, and Career Pathways Showcases.

## HANDS ON EXPERIENCE

Students in the Business Management program gain hands on business experience through the operation of The Armory school store.



# Warren Tech Business Management

*"I love the business program because I have gained a lot of hands on experience, and it has prepared me for the future. It's also very interactive and fun!"*  
~ M. Brideson Class of 2016

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# Warren Tech Child Development



2016-17

CHILD DEVELOPMENT

## WARREN TECH CHILD DEVELOPMENT

The Child Development Career Academy introduces students to the developmental characteristics of children. The program offers students insights into physical, emotional, and cognitive development. The individuals trained in this area will be well prepared for the demanding child care profession and to become future educators. The field experiences are in concert with the laws governing professional child care training facilities.

In the Child Development program students work towards obtaining industry credentials such as a Child Development Associate (CDA) certification, which is the most widely recognized credential in early childhood education and is a key stepping stone on the path of

career advancement in the industry.

A great program for future educators, this career academy runs a Pre-School known as Sprouts. Under the guidance of the Child Development Instructor, junior, and senior students develop and teach lessons and activities to the pre-school students.



### Work with Pre-School Students

Students in the Child Development program will have the opportunity to run the Sprouts Pre-school providing field experience in early childhood development.



### Credentials

Successful students in this program have the opportunity to obtain a Child Development Associate (CDA) Credential™. This credential is based on a core set of competency standards, which guide early care professionals as they work toward becoming qualified teachers of young children.

# Pathways in Child Development

The Warren Tech Child Development Career Academy traditionally has two pathways that students in this program pursue, College Prep and the workforce.

## College Prep/Teacher Preparation

Students enrolled in this pathway in the Child Development Academy plan on continuing their education at a college or university. Students in this pathway traditionally are seeking future employment in education as a teacher, guidance counselor, or educational support staff. In this program students will gain experience working with young children and in developing and implementing lessons while preparing for college teacher preparation programs. Students will also have the opportunity to work towards obtaining their Child Development Associate (CDA) credential.

## Work Force Ready

Students in the Child Development Career Academy also have the track of preparing for the workforce. Students in this pathway will focus on becoming employed directly after high school in child care centers. Students work towards their CDA and gain experiences in working with young children in Warren Tech' Sprouts Pre-School program that operates on campus.



## SKILLS USA

Students in the Child Development Program can hone their skills while competing in SKILLS USA in Early Childhood Development, and Career Pathways Showcase competitions.

## HANDS ON EXPERIENCE

Students in the Child Development program gain hands on experience through the operation of the Sprouts pre-school on campus.



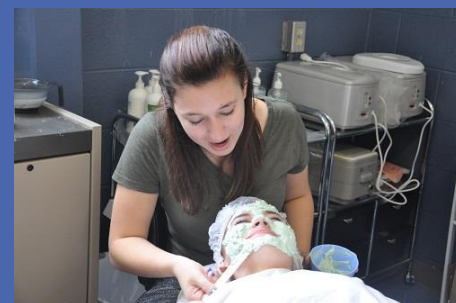
# Warren Tech Child Development

*"It was great to have a head start on so many of my peers. I was able to gain experience in the field that I wanted to pursue."  
~ Alexis Smith '14*

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# Warren Tech Cosmetology



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COSMETOLOGY

## WARREN TECH COSMETOLOGY

### Overview

The Cosmetology Academy at Warren County Technical School is a four year program designed to prepare students for a career in the cosmetology and barbering fields. The state licensing program is geared towards preparing students for the New Jersey State Board of Cosmetology and Hairstyling exam.

The program introduces students to skills that can be used in a variety of careers including barber, beautician, hairstylists, manicurists, and skin care specialists. Students in this program can go on to college programs in fashion, design, and other college programs.

Students take the written and practical components of the state licensing exam at the end of their senior year. Upon passing these exams students obtain licensure in

the State of New Jersey to begin a career in the field.

This program provides students with guided, hands-on, clinical training through the operation of the Technique Salon on campus. Students participate in activities with local salons and charitable organizations as they build their resume and experiences as they pursue a career in the industry.

Finally, students hone their skills by competing in SKILLS USA in cosmetology, esthetics, nail care, and more.



### Hands On Experience

Students in the Cosmetology program will gain valuable hands-on clinical experience through the operation of Tech-nique Salon.



### State Licensure

Students take the written and practical components of the state licensing exam. Upon completing the program and passing this exam students obtain licensure in the State of New Jersey.

## Pathways in Cosmetology

The Warren Tech Cosmetology Career Academy prepares students for careers in the barbering, hairdressing, and cosmetology industry. Students gain hands-on experience and sit for the state licensing exam. Students also have the option of continuing on to college.

### College

Many students enrolled in the Cosmetology Academy at Warren Tech are preparing to continue their education in college. Some pursue degrees in fashion and use their education in cosmetology as a framework in which to build off of. Others use their cosmetology license to begin working in rewarding careers while pursuing a college education. Warren Tech's cosmetology licensure program provides in demand career skills that allow students to work way through college while reducing and eliminating student debt.

### Work Force Ready/Entrepreneurship

The Cosmetology Program at Warren Tech prepares students for employment straight out of high school. Students sit for the state licensure exam, develop their skills through practical application, network with local employers, and participate in community events.

The Cosmetology Program at Warren Tech also prepares students for future Entrepreneurial opportunities in operating a salon or barber shop. Students in the program operate Tech-nique Salon, a full service clinical salon on campus. Students considering entrepreneurship are encouraged to explore post-secondary education opportunities in Business to pair with the cosmetology skills developed at Warren Tech.

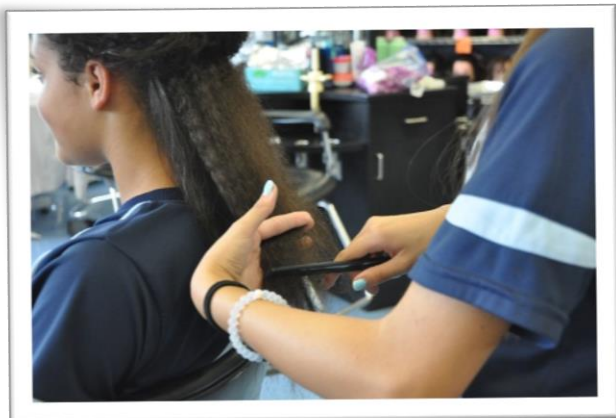


### SKILLS USA

Students in the Cosmetology Program can hone their skills while competing in SKILLS USA in various competitions to include cosmetology, esthetics, nail care, and more.

### EMPLOYABILITY

Successful students in the Cosmetology program are prepared with the necessary experiences and licenses to begin a career in an in-demand industry.



## Warren Tech



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# Warren Tech Electrical Applications



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ELECTRICAL APPLICATIONS

## WARREN TECH ELECTRICAL APPLICATIONS

The Electrical Applications Career Academy at Warren Tech prepares students for in demand careers as residential, commercial, or industrial electricians. The program also prepares students with a basis to build off of in an electrical engineering college program.

Electrical Applications introduces direct current theory, alternating current theory, and Ohm's law. These principles provide students with a thorough understanding of how electricity works. Students draw, build, and troubleshoot real circuits under the direct supervision of the instructor. Safety is emphasized throughout the program

Students explore the ever changing environment of

residential, commercial, and industrial, and electrical applications. Students are introduced to modern technology such as home automation technology.

Students completing this program may qualify to enter into the IBEW Local #102 where they can earn up to 37 college credits.

Graduates from Warren Tech's Electrical Technology program will have an advantage in applying for a New Jersey electrical contracting licenses.



### Hands-On Applications

Students in the Electrical Applications program gain experience under the supervision of the instructor. Students learn how to safely work with electricity.



### Workforce Ready

Graduates of the program will have the skills to pursue work as an independent or union electrician and will have a work experience advantage when applying for contracting licenses.

## Pathways in Electrical Applications

The Warren Tech Electrical Applications Career Academy provides students with a variety of pathways for students to pursue including College Prep, Workforce Ready, Entrepreneurship, and Trade Schools.

### College Prep

Students enrolled in the Electrical Applications Academy at Warren Tech can begin preparing for two or four year college programs by pairing their skills gained in the shop with college prep courses. This program provides a foundation in electrical applications for students interested in exploring electrical engineering degrees.

### Workforce Ready/Entrepreneurship

Students in the Electrical Applications Academy are also prepared to pursue jobs upon graduating from Warren Tech. Students in this pathway will develop in demand commercial, industrial, and residential wiring skills that help them obtain employment with union and independent contractors or in the home improvement and construction supplies retail industry. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.

Electrical Applications students in this pathway are also prepared with the technical skills necessary to start them on the path of owning their own company. Students considering entrepreneurship are encouraged to explore post-secondary education opportunities in Business to pair with the skills developed at Warren Tech.

### Trade Schools

Students in this pathway also have the opportunity to prepare for trade schools such as Lincoln Tech and Triangle Tech. Students enrolled in the Electrical Applications Academy classes at Warren Tech will gain knowledge, skills, and experience in the field of electrical applications.

## IN DEMAND CAREER

Electrician jobs are set to grow by 14%, a much faster than average job growth between 2014 and 2024. (bls.gov)



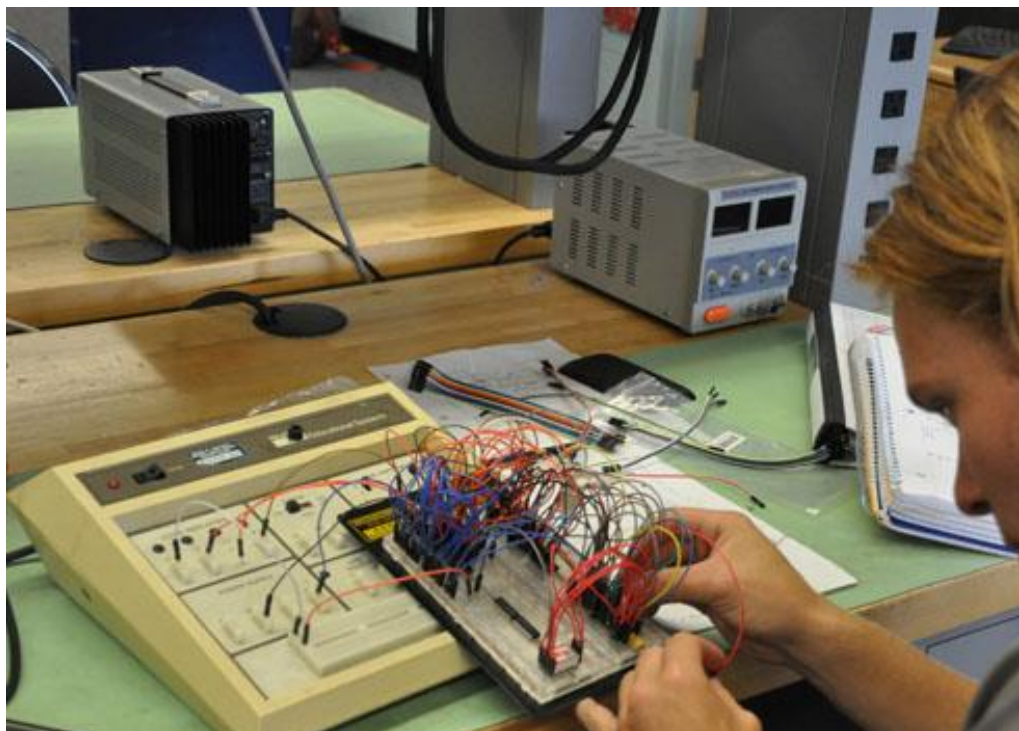
## SKILLS USA

Students in the Electrical Applications Program practice their skills while competing in SKILLS USA in various competitions to include electrical construction wiring and Electrical Industrial Controls.

## Warren Tech

*"I love that I'm learning the skills that will help me get a job in a career that's in demand!"*  
 ~ C. Donaldson, Class of 2017

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# Warren Tech Electronics Technology



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ELECTRONICS

## WARREN TECH ELECTRONICS TECHNOLOGY



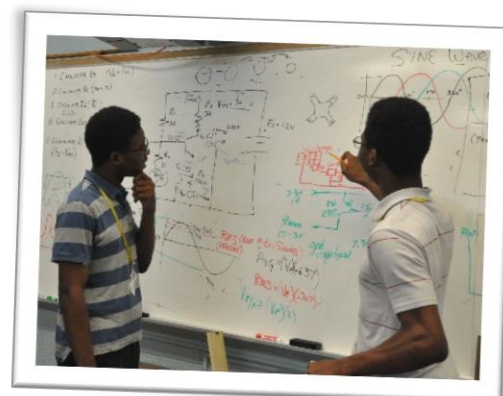
Warren County Technical School's Electronics Technology Academy is a comprehensive program covering electronic theory. The program starts with basic electrical circuits and progresses through complex circuit analysis. The theory learned is applied to advanced programming of microcontroller circuits.

Students who complete this program will have the ability to either seamlessly integrate into the work environment or go onto institutions of higher learning. Problem solving and independent thinking is emphasized throughout all four years. Most

students pass industry certification exams such as A+ for computers or CEA for electronic technicians.

The program starts with an introduction to skills needed for many careers in electronics. Students are trained to utilize common test instruments while learning about circuit construction. Student's progress to advanced electronic theory, including the basics of semiconductors and power supplies, transistor theory, and amplifier circuits.

Students' progress to Digital concepts. This theory forms the basis for students to learn computer/network troubleshooting and maintenance. Students are also introduced to robotic concepts, computer microcontrollers and their programming. Students are challenged to write software which controls various robotic devices. In the final year of the program students pick one or more specialized topics to study. These topics include: project design and management, A+ computer repair and maintenance, or technology for green renewable energy. Throughout this school year, students take one of many industry-accepted, certification exams in computers, electronics, or energy.



### COLLEGE PLACEMENT

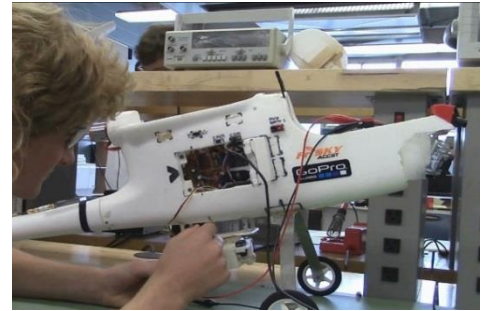
Students in Warren Tech's Electronics Academy learn advanced theory in Electronics that prepares for placement in college electronics programs.

# Electronics

The Warren Tech Electronics Career Academy provides students with the skills needed to pursue a post-secondary education in Electronics at colleges, universities, and trade schools. The program also prepares students for careers in the field out of high school, either in industry or in the military. Students in this program design and build real life projects using advanced electronic theory as well as modern technology and equipment. These projects prepare students with the skills needed for employment in the Electronics field and placement in college programs. Students in the Electronics Program also have the opportunity to compete in SKILLS USA.

Students in the program learn advanced theory in electronics that prepares for placement in college electronics programs. Warren Tech students are introduced to concepts and theories that are often taught at the college level, giving Tech students an advantage when they enroll in college electronics programs.

Students enrolled in the Electronics Academy at Warren Tech are also prepared for careers in the electronics field right out of high school including military careers. The Electronics Academy provides an opportunity for students to obtain a number of industry accepted credentials and certifications in computers, electronics, and energy.



## HANDS ON PROJECTS

Students in the Electronics Academy at Warren Tech design and build projects using advanced electronics and a variety of machines, tools, and equipment that prepare students with the skills needed in the Electronics field.

## SKILLS USA

Students in the Electronics Program will have the opportunity to compete in SKILLS USA. (Pictured Warren Tech's 2016 Skills USA National Champion, Zach Snyder)



## INDUSTRY CERTIFICATIONS

Students in the Electronics program have the opportunity to earn industry-accepted, certifications in computers, electronics, or energy.

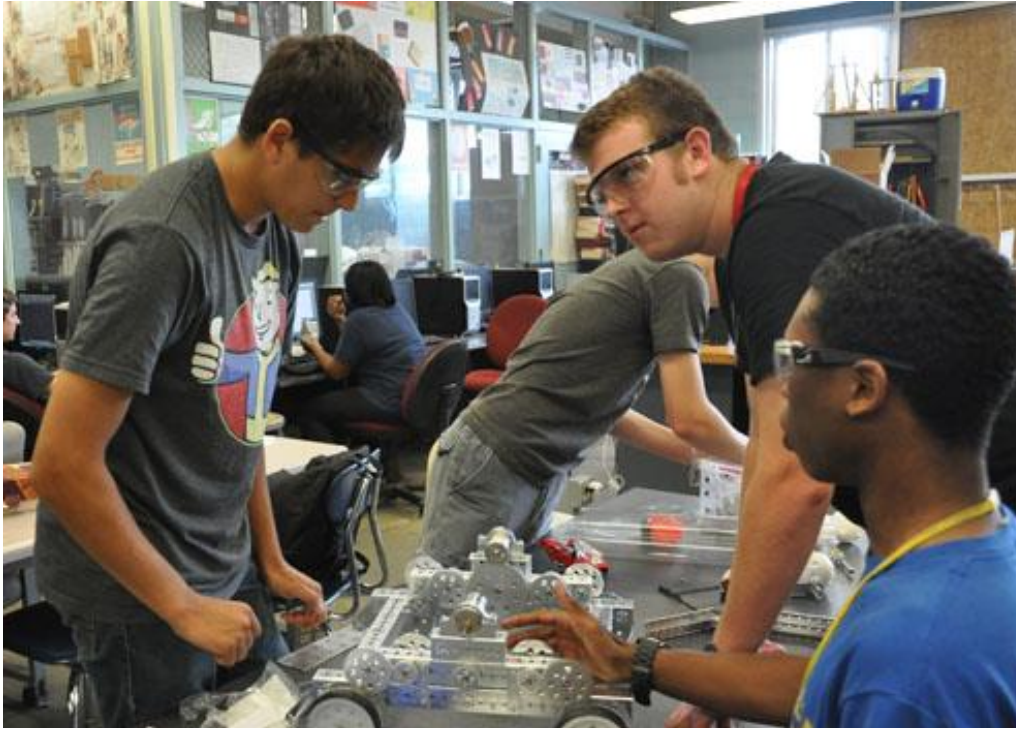


## Warren Tech

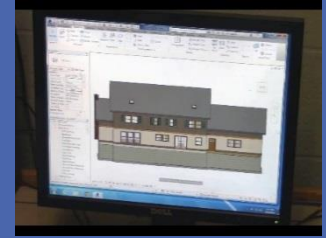
*"The Electronics program at Warren Tech has helped me learn valuable skills that I can use in the work force. The projects I have completed here will help me further my career and goals, plus I am having fun learning."*  
 ~ Evan M. '17

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# Warren Tech Engineering & Architecture



2016-17

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## WARREN TECH ENGINEERING & ARCHITECTURE



The Warren Tech Engineering & Architecture Career Program provides students with the skills

needed to pursue a post-secondary education in Engineering, Design, Manufacturing and/or Architecture. The use of two dimensional and three dimensional Computer Aided Drafting and Design (CADD) software (AutoCAD, Inventor and Revit) is an essential tool applied within this program.

Students will develop the technological literacy and problem solving skills that are invaluable in their first year post-secondary education.

The program provides architecture practices involved in the design and layout of residential floor plans, elevations and site plans according to the National CAD Standard (NCS).

The program offers experiences in FIRST Tech Challenge (FTC) in which students design, build, program, and operate robots. Students call it "the hardest fun you'll ever have!" Students develop STEM skills and practice engineering principles while realizing the value of hard work, innovation, raise funds, design and market their team brand, and do community outreach for which they can win awards.

### SkillsUSA

Students in the Engineering & Architecture Program will have the opportunity to compete in local, state and national SkillsUSA competitions in which students demonstrate occupational and leadership skills.

Students can compete in Technical Drafting, Architectural Drafting, Engineering Technology /Design and Robotics and Automation Technology.

Pictured is Warren Tech's 2016 National Gold Medal Champions in Engineering Technology/Design



## Why choose field in Engineering/Architecture?

- You can make a difference. Everywhere you look you'll see examples of engineering or architecture that makes a difference in everyday life
- Be creative. Great outlet for the imagination—the perfect field for independent thinkers
- Work with great people. Engineering/Architecture takes teamwork, and you'll work with all kinds of people inside and outside the field
- Solve problems and design things that matter. Come up with solutions no one else has thought of
- Never be bored. Creative problem solving skills will expose you to different ways of thinking
- Make a big salary. Engineers/Architects not only earn lots of respect, but they're highly paid. Even the starting salary for an entry-level job is impressive!
- Change the world. Imagine what life would be like without pollution controls to preserve the environment, life-saving medical equipment, or low-cost building materials for fighting global poverty
- All this takes engineering/architecture. In very real and concrete ways, engineers and architects save lives, prevent disease, reduce poverty, and protect our planet.

### ROBOTICS

Students enrolled have the opportunity to compete on Warren Tech's award winning FIRST Tech Challenge (FTC) Robotics Team called the W.A.L.K.E.R.S



### HANDS ON

Students enrolled are introduced to safe operation of various manufacturing tools and equipment (drill press, milling machine, lathe and rapid prototype machine).



### COLLEGE CREDIT

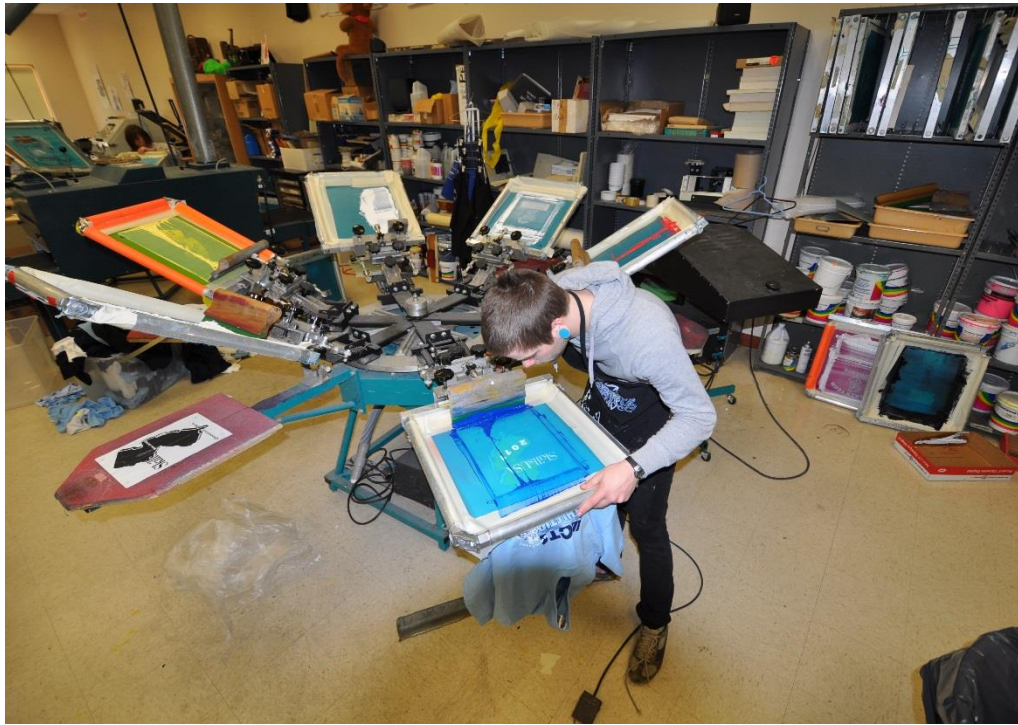
Students in the Engineering Program will have the opportunity to obtain college credit (MET 103 and MET 105) through New Jersey Institute of Technology (NJIT).



## Warren Tech

*"The classes in Engineering provided the foundation of my skills in college, which transferred into the field of architecture. The shop classes also established and confirmed my interest in architecture and design" ~ Ty Richline Class of 2011*

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# Warren Tech Graphic Arts



2016-17

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BUSINESSES MANAGEMENT

## WARREN TECH GRAPHIC ARTS



In Graphic Arts students develop skills in developing, designing, and producing products.

Students explore technologies of design, printing, publishing, and packaging processes that are required for graphic arts, commercial advertising, and marketing industries. The field of graphic communications encompasses all graphic processes from origination of the idea, which includes design and illustration, to the production, finishing, and distribution of the finished products.

This program involves the creation of multi-dimensional products and electronic transmissions. It integrates technologies of pre-press,

digitizing, interactive multimedia, digital imaging, and desktop publishing. All of the printing methods, such as offset lithography, letterpress, screen printing, engraving, foil stamping, thermography, heat-transfer, embossing, laser printing, vinyl cutting, and other electronic imaging and reproduction methods are learned in this program. Post-press operations, which include folding, cutting, fastening, personalizing, and product distribution are stressed throughout the program.

Finally, students work on live projects for real customers and develop skills in customer service, sales, and marketing.



### Hands on Projects

Students develop projects from origination of an idea to its finished product.

### Live Jobs

Students create live jobs for real customers. This process allows students to gain skills in customer service, sales, and marketing.



# Graphic Arts

Graphic Arts students begin their study by learning print shop procedures, safety procedures, and the history of graphics. Students quickly progress to developing the basic skills of the industry through a project-based curriculum. These skills include math and measurement, introduction to quick print and copier techniques, conventional layout and pasting procedures, studio safety, basic tools, and supplies. Also introduced are the elements of type, drawing line art, and computer introduction.

In the second year of the program, students begin to explore the basics of production through a study of graphic arts and related theory. After a review of print shop procedures and safety, students learn basic copier operation, screen print process and procedures, design, photography, and line art reproduction. Students also begin experimenting with paper, graphic materials, color theory, design theory, and desktop publishing.

Upon completion of this class, students will have an understanding of graphic formats and skills to decide when to use which format, and format conversion. Students will demonstrate knowledge of electronic imaging and other image generation devices for reproduction photography. Students will progress their skills with sand carving, laser cutting, screen printing, and inkjet print and contour cut.

During Graphic Arts IV, students focus on production skills. They practice design, layout, digital plate making, presswork and binder procedures, as well as exploring waterless printing techniques. Throughout their fourth year, all students focus on portfolio development as they complete many "live jobs" for the school and public. Students' progress to advanced presswork and strive to further develop their skills through the cooperative employment program.



## SKILLS USA

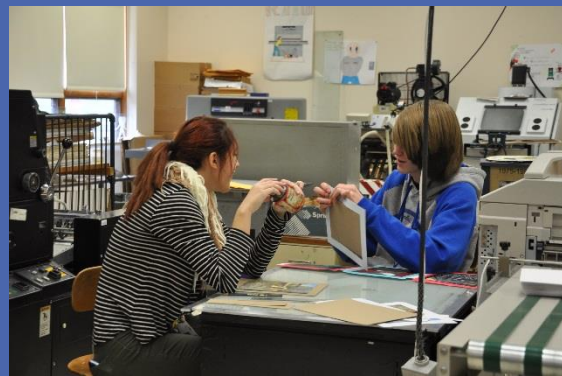
Students in the Graphic Arts Program can practice their skills while competing in SKILLS USA in various competitions in Advertising Design, Graphic Communications, Career Pathways Showcase, and more.

## MODERN EQUIPMENT

Students in the Graphic Arts program gain hands on experience using modern printing, publication, and production equipment.



## Warren Tech



## Graphic Arts

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GO KNIGHTS!

# Warren Tech Health Sciences



2016-17

HEALTH SCIENCES

## WARREN TECH HEALTH SCIENCES



Warren County Technical School's Health Science Career Academy introduces students to the

expansive career paths available in health care. The core curriculum emphasizes science, the human and organizational side of health care, and clinical experience.

The program is designed to prepare students to enter the health care work force and/or further their education that facilitates their higher educational experience. Warren County Technical School partners with Rutgers University to offer successful students the opportunity to earn college credits at no charge.

Students start with an introduction to health sciences career possibilities and an overview of anatomy and

physiology. Students also gain exposure to professionals and real life experiences in the field through required shadowing opportunities.

Students in the program study medical ethics, medical terminology, medical math, anatomy & physiology, chemistry, and psychology as they prepare for post-secondary opportunities in the field. Dynamics of Health in Society, Medical Mathematics, Medical Terminology, Anatomy & Physiology I and II are thoroughly taught with incentive undergraduate credits through Rutgers University – The School of health Related Professions. Chemistry or Biochemistry is intended to be a required co-requisite.



### Hands-on Experience with Modern Technology

Students in the Health Sciences program will have the opportunity to utilize modern medical equipment and technology as they explore the field.



### College Credit

Students will be afforded the opportunity to obtain college credits through Rutgers University.

## Pathways in Health Sciences

Students enrolled in the Warren Tech Health Sciences Shop will receive a rigorous curriculum outlined by Rutgers University that prepares them with the necessary foundation to launch their future health care endeavors. Students will have the potential of earning a total of 17 undergraduate credits through Rutgers University along with 6 dual-enrollment credits through Warren County Community College (WCCC) that might be transferrable to a lot of health related programs. Students will explore a variety of career paths within the Health Science field and prepare for future professional plans.



### College Prep – Four Year Colleges & Universities

Students enrolled in the Health Sciences program at Warren Tech will be prepared for college programs in the health science field. Warren Tech has an agreement with Rutgers, providing the opportunity for students to earn college credit for course completed at Warren Tech giving students an edge as they prepare for degrees in the health care field.

### Two Year Degrees/Post-Secondary Licensing Programs

Health Sciences students in this path have the option of continuing their education at two year schools such as WCCC, where they can pursue an Associate's Degree and licensing as a Registered Nurse or Medical Assistant. Students might also choose to continue in the Allied Health Programs at WCCC. Students also have the opportunity to continue their education at Warren Tech's Adult Education Post-Secondary School with automatic enrollment where they can complete their degree as a Licensed Practical Nurse (LPN). Many students follow the path of completing the LPN degree first so they can enter the workforce sooner and then transition into the more advanced nursing degrees.

### CLINICAL EXPERIENCES

Students gain exposure to professionals in the field and real life experiences through field trips, clinical, and shadowing opportunities.



## Warren Tech Health Sciences

*"I can never thank Warren Tech's Health Science program enough for everything they gave me beyond that of an extraordinary education."*  
K. Seals, '16

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# Warren Tech Hospitality & Culinary Arts



2016-17

GO KNIGHTS!

HOSPITALITY & CULINARY ARTS

## WARREN TECH HOSPITALITY & CULINARY ARTS

The Hospitality Management and Culinary Arts Career Academy is a comprehensive four-year program that prepares students for college hospitality programs as well as various positions in the food service, lodging, hospitality, and gaming industries. In this program students learn and practice management techniques, food production, food purchasing, safety, nutrition and sanitation. Along with those skills, students also explore hospitality industry policies and regulations, and world cultures and culinary traditions. Also, students will receive instruction in tourism regulations, outlets, travel restraints, the global tourism economy, and customer service.

Students gain hands on experience in restaurants facilities operations through the management of the Knights Café, a state of the art, full service restaurant on campus.

Kim Nodoro - nodork@wctech.org

Students in this program host regular events and compete in Skills USA competitions, all while preparing for college culinary programs and careers in the field of Hospitality and Culinary Arts.

This program also features an agreement with Warren County Community College that enables students to continue their education at WCCC, where they can earn an Associate Degree in Applied Sciences in Food & Beverage Management.



### Knights Café - Open M-F 12-1:30 PM

Students in the Hospitality & Culinary Arts program will have the opportunity to practice their skills in restaurant management & Culinary Arts through the operation of the Knights Café, a full service restaurant on campus. The restaurant is open to the public, call the school's main office before arriving.



### Certifications & Licenses

Students will be afforded the opportunity to obtain industry certifications such as ServSafe and SP/2, enabling students to obtain positions in the hospitality field.

Pat Lilly - lillyp@wctech.org

## Pathways in Hospitality & Culinary Arts

The Warren Tech Hospitality and Culinary Arts Career Academy has three pathways available for students to pursue: College Prep, the Workforce, and Entrepreneurship.

### College Prep

Students enrolled in Hospitality & Culinary Arts classes at Warren Tech will prepare for college culinary programs. Warren Tech has an agreement with Warren County Community College, providing the opportunity for students to continue their education and obtain an associate's degree in Food & Beverage Management from WCCC. Additionally students are prepared to pursue a higher education at culinary schools such as the Culinary Institute of America and Johnson & Wales College of Culinary Arts or Baking and Pastry. Other students in this track prepare for traditional college programs.

### Entrepreneurship

Hospitality and Culinary Arts students in this path are prepared with the culinary skills that will start them on the path of owning their own restaurant. Students considering entrepreneurship are encouraged to explore post-secondary education opportunities in Business to pair with the culinary skills developed at Warren Tech.

### Work Force Ready

Students in the Hospitality & Culinary Arts program are also prepared to pursue jobs upon graduation. Students in this pathway develop in demand culinary skills in customer service, baking & pastry, and food preparation. Additionally students in the program obtain a ServSafe certification. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.



### CULINARY SHOWCASE

Students host regular theme dinners entitled Culinary Showcase. These events run several times a year. These events provide instruction and exploration in world cultures and traditions. The Culinary Showcase also provides students with the opportunity to practice their skills in food preparation, menu design, and customer service.

### SKILLS USA

Culinary Arts & Hospitality students have the opportunity to compete in SKILLS USA competitions in Culinary Arts, Commercial Baking, and more.



## Warren Tech Hospitality & Culinary Arts

*"I love this program because I get to practice my career choice everyday!"*

*~Lindsay Schafer Class of 2020*

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GO KNIGHTS!

# Warren Tech Law & Public Safety



## 2016-17

LAW & PUBLIC SAFETY

## WARREN TECH LAW & PUBLIC SAFETY

### Overview

The Law & Public Safety and Program at Warren Tech prepares students to pursue a variety of careers in the public safety industry. Students in the program go on to college, pursue careers as police officers, emergency service personnel, Wildlife, Fish Game Officers, armed forces and more.

Students learn about basic first aid, crime scene processing, CPR, report writing, forensics, crime scene investigation, evidence gathering technique, the legal system, the court system, Specialized first aid/AED including extrication, fire extinguisher use, traffic control, and power line incidents. Students in this program will

complete summonses and criminal complaints along with completing the required investigative reports. Interviewing and interrogation skills will also be developed. Students participate in the simulation exercises offered by associated local officers and agents of these offices are brought in for ancillary instruction.

Certifications such as first responder, CPR/AED, ICS 100 & 700, and HAZ-MAT can be obtained.



### Live Simulations

Students in the Law & Public Safety program will have the opportunity to practice skills learned through live simulations in conjunction with local law enforcement offices.



### Certifications

CPR/AED, Blood Borne Pathogens, Incident Command 100 & 700, HAZ-MAT.

# Pathways in Law & Public Safety

The Warren Tech Law & Public Safety Career Academy prepares students for a variety of paths upon completion of the program. Students are prepared for college, law enforcement, military, and emergency responder careers.

## College Prep

Students enrolled in the Law & Public Safety Academy classes at Warren Tech are prepared for college. Many students' pursue college degrees in law enforcement, criminal justice, and corrections programs.

## Military

Las & Public Safety students are also prepared for military careers. Students will participate in activities with local military recruiters and be introduced to careers in the armed forces.

## Emergency Responder Careers

Students in the Las & Public Safety Career Academy also have the track of preparing for the workforce. Students in this pathway will focus on becoming employed in the field. Students earn emergency responder certifications and network with local law enforcement agencies to become exposed to a variety of careers in public safety.



## SKILLS USA

Students in the Law & Public Safety Program have the opportunity to compete in a variety of SKILLS USA Competitions such as Crime Scene Investigation, Criminal Justice, Firefighting, and CPR, & First Aid.

## HANDS ON EXPERIENCE

Students in the Law & Public Safety program gain hands experience through collaborative exercises with local law enforcement agencies.



# Warren Tech Law & Public Safety

*"The Law & Public Safety Program is great! We go on a lot of field trips, develop hands on skills, and network with local law enforcement agencies!" ~ A. Szabanos, Class of 2016*

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GO KNIGHTS!

# Warren Tech Performing Arts



2016-17

PERFORMING ARTS

## WARREN TECH PERFORMING ARTS



The Performing Arts Career Academy at Warren Tech introduces all aspects of theater. Students focus

on dramatic works, musical theater, and their performance. This includes instruction in major works of Broadway, dance genres, and the principles of organizing and producing full live or filmed productions.

In this program students are exposed to a variety of career options in the theater field including, directing, singing, technical theater, dance and the business of theater. Activities include creating believable characters, understanding and practicing strong rehearsal techniques, improvising without scripted material, developing scene

blocking, and critiquing performances.

Performing Arts students have many opportunities to perform for the public, attend professional theatrical performances, learn about college arts programs, and collaborate with theater professionals.

In the Performing Arts program students will have the opportunity to perform in touring productions, musicals, and other performance events. A more in-depth introduction to theater will cover scene study, monologue preparation, acting for the camera, voice and movement, and character analysis. Theater students have the opportunity to work with both dance and voice with professionals in the field.

Students are also introduced to other areas of theater to include the business of theater and arts administration.

Upon graduation from the program students will have explored music, theater, dance, lighting, set design, and stage management.

### LIVE PRODUCTIONS

Students in the Performing Arts Program will have the opportunity to display their skills and talent in a number of productions. Warren Tech Performing Arts produces musicals, plays, and other student led productions.



# Performing Arts

The Warren Tech Performing Arts Career Academy provides students with the skills needed to pursue a post-secondary education in the arts at colleges and universities.

Students in this program produce and perform many live and video productions. Field trips to real-life productions enhance students' experience in the program.

The project based approach prepares students with the skills needed for employment in the field of Performing Arts.

Students in the program have the opportunity to showcase their skills as they compete in a national competition known as SKILLS USA.

Warren Tech

*"Theater is a blast! I love how interactive it is. Every day is different and we always work and think outside the box!"*

*~ Ariana Bridges, '19*

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## FULL THEATER PROGRAM



Students in Warren Tech's Performing Arts Academy learn directing, technical theater, and the business of theater.

## FIELD TRIPS

Students in the Performing Arts Program will have the opportunity to visit live productions.



## SKILLS USA

Students in the Performing Arts Program will have the opportunity to compete in Skills USA.





GO KNIGHTS!

# Warren Tech TV, Radio, & Digital Media



2016-17

TV, RADIO, & DIGITAL MEDIA

## WARREN TECH TV, RADIO, & DIGITAL MEDIA



The TV, Radio & Digital Media program is a comprehensive, process-centered program which

prepares students interested in the area of multi-media production. Students will integrate digital video, graphics, sound, and animation to create projects.

Students produce several programs which air on the school's YouTube channel, such as "Technical Teachings" and "Knightline News".

Students have the opportunity to experience instruction in audio production and editing. The program also allows students to delve into radio production and work hands on with equipment that would allow for the production of programmable audio.

The career academy also offers students the opportunity to acquire the skills necessary to utilize video as a way of relaying information. The combination of video production and electronic news gathering offers a hands-on curriculum that drives the standard of quality in television production.

Students in their third year of this program produce a daily news broadcast which informs students and staff of school happenings and important announcements. They rotate through the crew positions and create their own segment to add once a week.

Finally, students will learn the skills needed to produce digital audio and video pieces. From the storyboard right down to distribution, the course will offer students the opportunity to work on longer assignments, such as documentaries, short movies, and a variety of live practical jobs.

### ADVANCED EQUIPMENT

Students in the TV, Radio, & Digital Media program have the opportunity to use advanced video and audio recording and editing equipment.



# TV, Radio, & Digital Media

The Warren Tech TV, Radio, & Digital Media Career Academy provides students with the skills needed to pursue a post-secondary education in television and radio production at colleges and universities.

Students in this program design and build audio-visual projects using advanced technology and equipment. Field trips to real-life studios enhance students' experience in the program. Past field trips have included professional studios such as FOX News, WRNJ Radio, and WWE Studios.

The project based approach prepares students with the skills needed for seamless entry into college where they can continue their education needed for employment in the field of TV, Radio, & Digital Media. Students in the program have the opportunity to showcase their skills as they compete in a national competition known as SKILLS USA.

## COLLEGE PREP



Students in Warren Tech's TV, Radio, & Digital Media Academy learn advanced theory in TV, Radio, & Digital Media that prepares for placement in college TV, Radio, & Digital Media programs.

## SKILLS USA

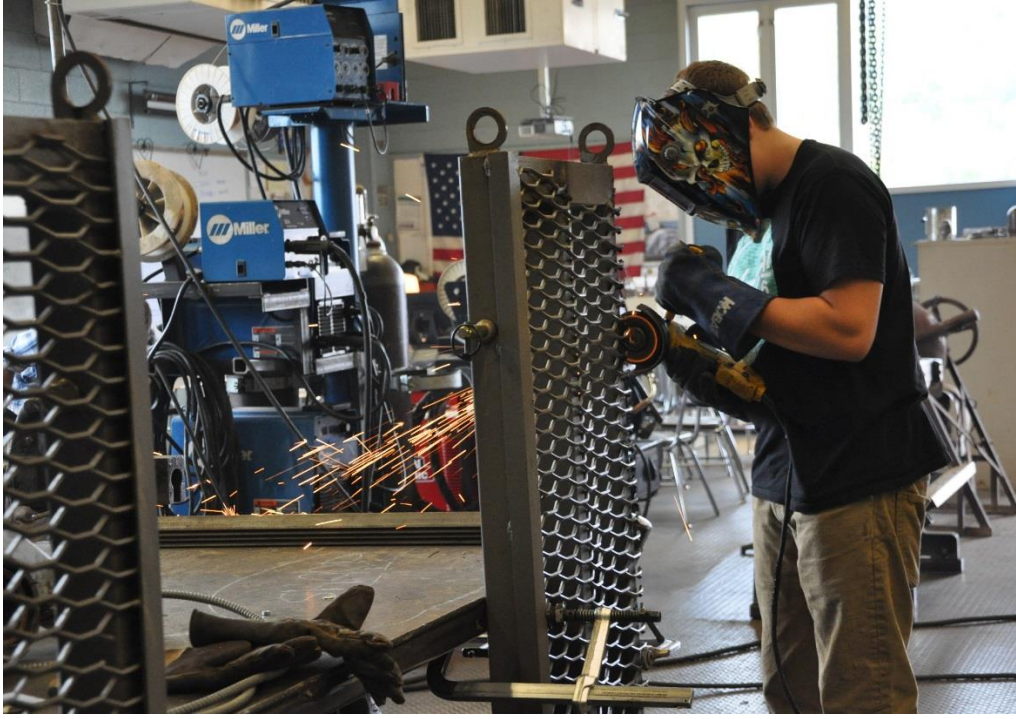
Students in the TV, Radio, & Digital Media Program took first place in the News Broadcast competition at SKILLS USA in 2016.



## Warren Tech

*"My favorite part of the TV, Radio, & Digital Media Academy at Warren Tech was that I got to learn all the skills I needed for college and my future career during high school while surrounded by people I called family"*  
 Jeffrey A. -Class of 2016

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WARREN TECH

Welding &  
Fabricating

2016-17

GO KNIGHTS!

WELDING &amp; FABRICATING

## WARREN TECH WELDING & FABRICATING

The Welding and Fabricating program at Warren Tech teaches skills, values, and work ethic essential to future welders, fabricators, machinists and engineers. Our diversified curriculum starts by emphasizing fundamentals such as safe working practices, math, measurement, and the use of hand and power tools.

Students advance to learn Oxy-Fuel cutting, plasma cutting, air carbon arc gouging, forging, metallurgy and heat-treating. Comprehensive training in various welding processes (SMAW, GMAW, FCAW and GTAW) develop skills and prepare students to take proficiency tests representative of those required by several of the most common Welding Codes.

Project work forms an important part of our training and varies in scope from small repairs to large complex projects that require significant evaluation, design and

fabrication. These opportunities allow our students to learn time and resource management, customer relations, production and process control. In some instances the students have formed a business that has incorporated marketing and other business functions to provide a product for profit (proceeds going to the welding shop).

Layered with the classes and projects is training in making and reading drawings, the use of machine tools (metal lathe and vertical mill), and weld inspection techniques. Warren Tech's fabrication shop is well-equipped and allows students a range of exposure from traditional tools to some of the most sophisticated available (including CNC controlled plasma cutting).

Business fundamentals are developed through practice in quoting and tracking performance on real jobs, research into the history

of technology, and many field trips to a variety of manufacturing businesses and work sites. There may also be opportunities in the fourth year to participate in work-study programs. Upper classes learn how to research companies, find jobs, interview for them and are encouraged to take advantage of our network of local businesses for both summer and post-graduation employment. Many students elect to continue with college level work after graduating.



# Welding & Fabricating

The Warren Tech Welding & Fabricating Career Academy has a variety of pathways available for students to pursue: College Prep, Trade Schools, Entrepreneurship, Military Service, Union opportunities, and the Workforce.

## Work Force Ready

Students in the Welding & Fabricating Academy are prepared to pursue jobs upon graduating from Warren Tech. Students in this pathway will develop in demand skills that can help them obtain employment with union and independent contractors. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.

## College Prep, Trade Schools, & Entrepreneurship

Students enrolled in the Welding and Fabricating Academy at Warren Tech can begin preparing for two or four year college programs by pairing their shop program with college prep courses.

Welding students in this pathway are also prepared with the construction skills necessary to start them on the path of owning their own construction company. Students considering entrepreneurship are encouraged to explore post-secondary education opportunities in Business to pair with the construction skills developed at Warren Tech.

Students in this pathway also have the opportunity to prepare for trade schools such as Triangle Tech.



## HANDS ON TRAINING

Students in Welding learn a diversified set of techniques and skills that prepare them for rewarding careers in an in demand industry.

## JOB PLACEMENT

Students in this pathway will develop in demand skills that can help them obtain employment. Structured Learning Environment (SLE) work opportunities exist for students during the school day.



# WARREN TECH



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