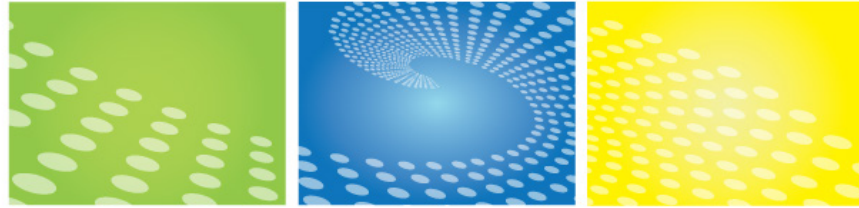


MERCER COUNTY



TECHNICAL SCHOOLS

# 2019-2020 Course Book

[www.mcts.edu](http://www.mcts.edu)



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*Effective February 11, 2019*

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# DISTRICT INFORMATION

## MERCER COUNTY TECHNICAL SCHOOLS' MISSION

Mercer County Technical Schools' mission is to produce a community of inspired, compassionate learners who are knowledgeable, skilled and possess the competencies that will prepare them for success in an ever-changing technological world. We provide our students with educational opportunities in preparing for careers in business and industry while emphasizing a culture of personal attention that focuses on the individual learner. Our goal is to foster a school climate that emphasizes the importance of the teaching-learning process and provide youth and adults the opportunities to maximize their potential, to reflect and offer solutions to challenges posed by society.

To fulfill this mission, the faculty and staff will:

- Embrace the belief that every student can learn
- Continuously emphasize that learning is a life-long process
- Assist students to enable them to think critically, analyze problems and develop solutions
- Assist students to become productive citizens in a global society

## ADMISSIONS

Most high school students apply for shared-time programs in 10th grade. First-year students typically attend in 11th grade from 8:00AM to 10:45AM and return to their home school for lunch and academic classes. Second-year students typically attend in 12th grade from 11:45AM to 2:30PM after completing their academics and lunch at the home school. Individual class schedules for shared-time students are assigned by home school Guidance Counselors ensuring that each student has all the necessary requirements for high school graduation.

## CLASS OFFERINGS

Students may enroll in one pull-out class at Mercer County Technical Schools each year. The class will be offered during the time that the career and technical education program is offered. Students enrolled in Cosmetology, Health and Child Care, Health Occupations and Career Prep are ineligible due to other program requirements.

Pull-out classes include Financial Literacy, History, Language Arts, Mathematics, Physical Education/Health and Science. Requests must be made by a Guidance Counselor or Child Study Team Member. Pull-out course offerings vary by center.

## CO-CURRICULAR ACTIVITIES

Students have the opportunity to demonstrate what they've learned by participating in co-curricular student organizations such as DECA (International Association of Marketing Students), HOSA (Health Occupations Students of America), FFA (Future Farmers of America) and SkillsUSA.

## COLLEGE CREDIT

Articulation Agreements with The Art Institute of Philadelphia, The Culinary Institute of America, Mercer County Community College and other schools allow students to earn valuable college credit upon the successful completion of high school classes.

## GRADUATION CREDIT

Mercer County Technical Schools is accredited by the State of New Jersey and Middle States Commission on Secondary Schools. Each shared-time program provides students with twenty high school credits per year. Upon successful completion of the program, each student receives a technical proficiency certificate. For those programs qualifying for board certification and/or a state license, testing is administered and certification and licenses are issued.

## INDUSTRY PARTNERSHIPS

Mercer County Technical Schools continue to create industry partnerships resulting in numerous employment opportunities for our students. It is required that we establish at least one industry partnership with each program offered at Mercer County Technical Schools.

## STRUCTURED LEARNING EXPERIENCE

### (Formerly Cooperative Industrial Education)

This program is an experiential, supervised, educational opportunity designed to offer students the chance to fully explore career interests. SLE's are integrated into the curriculum and provide students with opportunities to develop and apply a high level of academic attainment and to develop career and personal/social goals.

Qualified students with approved employment are placed on a job (paid or unpaid) by the SLE Coordinator. In addition to being paid by the employer, the student continues to earn credits toward graduation. A qualified student is one who has exhibited by his/her performance, effort, attitude and attendance that he/she will represent the school well. Linkages to apprenticeships are arranged in occupational areas where applicable. Although we make every effort to notify students of applicable employment opportunities, students are responsible for securing their employment prior to being eligible to participate in SLE.

## TRANSITIONS PROGRAM

The Transitions Program offers high school students an opportunity to participate in half-day career and technical education programs and academics at the Assunpink and Arthur R. Sypek Centers on a full-time basis. Eliminating the midday transport allows students to maximize the school day without missing valuable instructional time. The Mercer County Technical School District provides students with educational opportunities in business and industry while emphasizing a culture of personal attention that focuses on the individual learner. Our mission is to develop Mercer County's most valuable resource— its children; as we prepare them for the high-skill, high-demand, high-wage careers.

## TRANSPORTATION

Home school districts provide transportation for students who attend Mercer County Technical Schools.

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# SHARED-TIME PROGRAMS

## **ARCHITECTURAL/ENGINEERING DESIGN - Credits Earned**

ARTHUR R. SYPEK CENTER

This program prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. It includes instruction in various pre-engineering support functions for research, production and operations as well as applications to specific engineering specialties. This program is affiliated with *Project Lead the Way*.

## **AUTOMOTIVE COLLISION TECHNOLOGY**

ARTHUR R. SYPEK CENTER

This program prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders and external features. Includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques and damage analysis and estimating.

## **AUTOMOTIVE TECHNOLOGY - Credits Earned**

ARTHUR R. SYPEK CENTER & HOPEWELL VALLEY REGIONAL HIGH SCHOOL

This program prepares individuals to apply technical knowledge and skills to repair, service and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains and heating and air conditioning systems. ( \* ) *Hopewell students attend during the afternoon session.*

## **AUTOMOTIVE TECHNOLOGY FUNDAMENTALS**

ARTHUR R. SYPEK CENTER

This program prepares individuals to apply technical knowledge and skills in the adjustment, maintenance, part replacement and repair of vehicles and mobile equipment.

## **AVIATION (1-year)**

ASSUNPINK CENTER

This program gives students a strong foundation in the aviation profession, including history, terminology, and current trends in the industry. Students will be prepared to apply technical knowledge and skills to the flying and/or navigation of various aircraft, as well as technical knowledge of different facets of the industry. Content areas include Principles of Flight, Aircraft Design, Navigation and Communication, Weather and Environmental Science, Airway Safety, Flight Crew Operations, and the Impact of the Aerospace Age.

## **BAKING AND DINING SERVICES - Credits Earned**

ARTHUR R. SYPEK CENTER

This program focuses on the general study of baking and related culinary arts and prepares individuals for a variety of jobs within the food service industry including front-of-the-house operations. It includes instruction in food preparation, cooking techniques, equipment operation and maintenance, sanitation and safety, communication skills, applicable regulations, and principles of food service management.



## **BUILDING MAINTENANCE TRADES**

ARTHUR R. SYPEK CENTER

This program prepares individuals to apply technical knowledge and skills to keep a building functioning and to service a variety of structures including residential and industrial buildings. The program includes instruction in the basic maintenance and repair skills required to service building systems, such as masonry, carpentry, plumbing, electrical and other mechanical systems.

## **BUSINESS TECHNOLOGY - Credits Earned**

ASSUNPINK CENTER

This program prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries and other office personnel. It includes instruction in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.

## **CARPENTRY**

ASSUNPINK CENTER

This program prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install and repair wooden structures and fixtures using hand and power tools. The program includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques and applicable codes and standards.

## **COSMETOLOGY**

ARTHUR R. SYPEK CENTER & ASSUNPINK CENTER

This program prepares individuals to cut, trim, and style scalp, facial, and body hair; apply cosmetic preparations; perform manicures and pedicures; massage the head and extremities; and prepare for practice as licensed cosmetologists in specialized or full-service salons. The program includes instruction in hair cutting and styling, manicuring, pedicuring, facial treatments, shampooing, chemical applications, aesthetics, shop management, sanitation and safety, customer service, and applicable professional and labor laws and regulations. Preparation for the New Jersey licensing examination is provided. Licensing requirements include: high school diploma or equivalent, 1,000 consecutive hours of cosmetology instruction, successful completion of an accredited cosmetology program and a passing score on the required state licensing examination. *NOTE: All students are required to purchase their own kit for \$450.*

## **CRIMINALISTICS & CRIMINAL SCIENCE - Credits Earned**

ARTHUR R. SYPEK CENTER

This program focuses on the application of clinical and criminal laboratory science, investigative techniques, and criminology to the reconstruction of crimes and the analysis of physical evidence. Includes instruction in laboratory science, laboratory procedures, criminology and police science, evidentiary testing and analysis, computer applications, record-keeping, reconstruction techniques, evidence handling and storage, and applications to specific types of evidence and crimes.

## **CULINARY ARTS - Credits Earned**

ARTHUR R. SYPEK CENTER

This program prepares individuals to provide professional chef and related cooking services in restaurants and other commercial food establishments. Includes instruction in recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, aesthetics of food presentation, and familiarity or mastery of a wide variety of cuisines and culinary techniques. ( \* ) *First year students attend during the afternoon session.*

## **DIESEL TECHNOLOGY - Credits Earned**

ASSUNPINK CENTER

This program prepares individuals to apply technical knowledge and skills to repair, service and maintain diesel engines in vehicles such as automobiles, buses, ships, trucks, railroad locomotives, and construction equipment; as well as stationary diesel engines in electrical generators and related equipment.

## **ELECTRICAL CONSTRUCTION**

ASSUNPINK CENTER

This program prepares individuals with technical knowledge and skills to install, operate, maintain and repair electrical apparatus and systems such as residential, commercial and industrial electric-power wiring; and DC and AC motors, controls and electric distribution panels. The program includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

## **GRAPHIC ARTS TECHNOLOGY - Credits Earned**

ARTHUR R. SYPEK CENTER

This program prepares individuals to apply artistic and computer techniques to the interpretation of technical and commercial concepts. Includes instruction in computer-assisted art and design, printmaking, concepts sketching, technical drawing, color theory, imaging, studio technique, still and life modeling, multimedia applications, communication skills and commercial art business operations.

## **HEALTH OCCUPATIONS (1-year)**

ASSUNPINK CENTER

This one-year program prepares individuals for entry into specialized training programs or for a variety of concentrations in the allied health area. The program includes instruction in the basic sciences, research and clinical procedures and aspects of the subject matter related to various health occupations.

## **HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION TECHNOLOGY**

### **Credits Earned**

ASSUNPINK CENTER

This program prepares individuals to apply basic technical skills in support of engineers and other professionals engaged in developing and using air conditioning, refrigeration and heating systems. The program includes instruction in principles of heating and cooling technology, design and operational testing, inspection and maintenance procedures, installation and operation procedures and report preparation.

## **HORTICULTURE AND TURF CARE MANAGEMENT - Credits Earned**

ARTHUR R. SYPEK CENTER

This program prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and ground covers as well as related conceptual designs established by landscape architects, interior designers, enterprise owners or managers and individual clients. It includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision and purchasing.



## **MEDICAL ASSISTANT (1-year)**

### HEALTH CAREERS CENTER

This one-year program is designed to prepare individuals for a career as multi-skilled health care workers in a variety of health care settings. Medical Assistants complete administrative and clinical tasks in the offices of physicians, podiatrists, chiropractors, and other health practitioners. Duties vary with the location, specialty, and size of the practice. This program prepares students for a high-skill, high-demand occupation with much faster than average growth.

## **PRE-NURSING - Credits Earned**

### HEALTH CAREER CENTER

This course provides an introduction to the profession of nursing. During the first year of the program, students will study body structure and function (anatomy and physiology) in depth. These teachings will be enhanced using laboratory exercises and hands-on demonstrations. Additionally, students will learn the history of medicine, communication skills, legal and ethical issues of the healthcare worker, as well as cultural diversity as it applies in healthcare. Students will have the opportunity of obtaining various certifications that are necessary to function effectively in nursing, such as CPR (Cardiopulmonary Resuscitation) and First Aid. During the second year of the program, students will take the "Fundamental of Nursing" course that articulates with the Post-Secondary Licensed Practical Nursing program. Students will learn the basic overall concepts and skills that apply to the nursing field, including the importance of other health related disciplines and their direct relationship to nursing. While learning the basic core information, students will further explore the nursing field through informed job shadowing or work based experiences that will be coordinated with local sites, as well as a variety of healthcare facilities in the county.

# CAREER PREP

Career Prep is a unique opportunity for 12th graders to be enrolled, tuition-free, in up to 13 credit hours of courses at Mercer County Community College from 11:45AM to 2:30PM. Some programs may be scheduled outside of the normal afternoon session hours.

Participants will receive transferable college credits and sending school equivalent credits toward high school graduation requirements. Students are responsible for purchasing books, required lab materials and/or uniforms.

Applicants should have a recommended 3.25 GPA and an excellent attendance record. Programs and courses are subject to change or revision each year. Students must agree to follow the college calendar and attend class, even if sending school transportation is not provided.

## **ADVERTISING AND DESIGN** - 12 CREDITS

The Advertising and Design program prepares students for positions as designers, graphic communicators, and assistant art directors. These positions are most often found in advertising agencies, design firms, corporate communication departments, interactive multimedia studios, and the television industry. It also prepares students for advanced study in graphic design, advertising design, web design, or visual communication.

ART 102 - Basic Drawing – 3 CREDITS

ART 105 - Two Dimensional Design – 3 CREDITS

ADV 110 - Typography I: Basics of Graphic Design – 3 CREDITS

DMA 105 - Introduction to Computer Art – 3 CREDITS

## **BUSINESS STUDIES** – 12 CREDITS

This program is designed for the student who plans to earn a business-related degree at a four-year college or university.

IST 101 - Computer Concepts with Applications – 3 CREDITS

CMN 111 - Speech: Human Communication – 3 CREDITS

ECO 103 - Basic Economics – 3 CREDITS

BUS 209 - Business Letter/Report Writing – 3 CREDITS

## **COMMUNICATION** - 12 CREDITS

The Communication program prepares students to transfer into a baccalaureate degree program. Designed to explore both theory and the development of practical skills, the core curriculum includes courses in oral communication, mass media, and media ethics. The General Communication concentration is designed to provide experience in a variety of areas associated with communication careers. Students then select from one of four concentrations to complete their degree.

CMN 101 - Mass Media – 3 CREDITS

CMN 102 - Media Issues & Ethics – 3 CREDITS

CMN 111 - Speech: Human Communication – 3 CREDITS

CMN 151 - Introduction to Radio – 3 CREDITS

## **CRIMINAL JUSTICE** – 12 CREDITS

This program is designed for students interested in a career in the field of law enforcement or those preparing for advanced study in law, criminology, social welfare or criminal justice.

CRJ 101 - Introduction to the Criminal Justice System – 3 CREDITS

CRJ 103 - Introduction to Corrections – 3 CREDITS

CRJ 105 - Criminology – 3 CREDITS

CRJ 212 - Juvenile Justice – 3 CREDITS

## **CULINARY & PASTRY ARTS – 12 CREDITS**

This program is designed to provide students with the opportunity to jump-start their career in the food service industry as a professional chef or pastry chef.

- HOS 100 - Hospitality Success Skills – 1 CREDIT
- HOS 101 - Food Preparation I – 3 CREDITS
- HOS 115 - Food and Culture – 3 CREDITS
- HOS 118 - Sanitation and Safety in Food Service Operations – 2 CREDITS
- HOS 217 - Professional Baking I – 3 CREDITS

## **DANCE – 12 CREDITS**

This program offers an intensive study of jazz, ballet and modern technique. Students also receive training in choreography and perform in student-driven projects as well as the Mercer Dance Ensemble (MDE), Mercer County's own dance company.

- DAN 101 - Introduction to Dance and Culture – 3 CREDITS
- DAN 116 - Studio Dance Technique I – 3 CREDITS
- DAN 117 - Studio Dance Technique II – 3 CREDITS
- DAN 120 - Choreography I – 3 CREDITS

## **ENTERTAINMENT TECHNOLOGY: MUSIC TECHNOLOGY - 12 CREDITS**

The Entertainment Technology program prepares students for careers in the entertainment industry. The Music Technology concentration integrates music theory and performance with a comprehensive array of technical and business skills that enable the graduate to pursue a variety of career tracks in the music industry such as record producer, recording engineer, remix engineer, sound technician for live shows and concerts, as well as careers in the field of film scoring and film music editing.

- ETT 102 - Introduction to Entertainment Industry – 3 CREDITS
- MUS 103 - Introduction to Music – 3 CREDITS
- CMN 111 - Speech: Human Communication - 3 CREDITS
- CMN 153 - Digital Audio Production I – 3 CREDITS

## **ENTERTAINMENT TECHNOLOGY: TECHNICAL THEATER - 12 CREDITS**

The Entertainment Technology program prepares students for careers in the entertainment industry. The Technical Theatre concentration prepares graduates for careers as lighting and sound technicians, technical managers, equipment marketing representatives, and technical personnel for distributors and rental houses.

- ETT 102 - Introduction to Entertainment Industry – 3 CREDITS
- THR 101 - Introduction to Theater – 3 CREDITS
- THR 152 - Lighting Technology (Prerequisite: ETT 102) – 3 CREDITS
- CMN 153 - Digital Audio Production I – 3 CREDITS

## **EXERCISE SCIENCE – 11 CREDITS**

This program provides the opportunity for students to acquire the skills, knowledge and experience necessary to enter the continually evolving field of exercise science and to transfer into related baccalaureate programs.

- HPE 101 - Basic Concepts of Nutrition – 3 CREDITS
- HPE 105 - First Aid, CPR, and AED – 3 CREDITS
- HPE 110 - Concepts of Health and Fitness – 2 CREDITS
- HPE 151 - Introduction to Exercise Science – 1 CREDIT
- HPE 163 - Team Sport Management – 2 CREDITS

## **FASHION/APPAREL DESIGN - 12 CREDITS**

The Fashion/Apparel Design program is highly interdisciplinary, providing a strong foundation in art, design, and technical studies while developing a perspective on both the creative and business aspects of the industry. The program also prepares students for advanced study at four-year colleges by paralleling the first two years of course requirements at several institutions. While the design sequence emphasizes core creative art skills, technical training focuses on computer applications used in the industry and sewing labs structured to mirror those of actual fashion/apparel studios.

FAS 150 - Technical Skills for Apparel Production I – 3 CREDITS

FAS 105 - Fashion: The Global Market Place (Kerney Campus) – 3 CREDITS

FAS 250 - Technical Skills for Apparel Production II – 3 CREDITS

FAS 120 - Introduction to Fashion Design I – 3 CREDITS

## **FASHION MERCHANDISING - 12 CREDITS**

The Fashion Merchandising program prepares students for careers in fashion/apparel sales, marketing, buying, and merchandising. The program also prepares students for advanced study in business or marketing in a fashion/apparel-related program. The MCCC Fashion Merchandising curriculum parallels the first two years of education at a majority of undergraduate universities and art colleges, with an emphasis on career training for gainful employment.

FAS 130 - Introduction to Textiles for Fashion (Kerney Campus) – 3 CREDITS

FAS 105 - Fashion: The Global Market Place (Kerney Campus) – 3 CREDITS

CMN 112 - Public Speaking – 3 CREDITS

MKT 101 - Principles of Marketing – 3 CREDITS

## **FIRE SCIENCE TECHNOLOGY – 12 CREDITS**

*LOCATED AT DEMPSTER FIRE TRAINING CENTER*

This program provides students with skills and knowledge to become candidates for entry and/or advancement as professional and volunteer fire personnel.

FIR 101 - Introduction to Fire Science – 3 CREDITS

FIR 104 - Building Construction – 3 CREDITS

FIR 204 - Fire Fighting Tactics – 3 CREDITS

FIR 205 - Fire Department Organization – 3 CREDITS

## **GAMING - 12 CREDITS**

The Gaming program prepares students for careers in the video game software industry, a relatively new and rapidly expanding industry. The New York City / northern New Jersey metro region is one of the ten largest in the country for video game design and development. Game Design is a highly interdisciplinary field drawing from a number of diverse areas such as art, writing, sound design, sociology, anthropology, computer technology, and programming. The computer is the primary tool of expression in the program; however, emphasis is placed on the development of creative thinking as well as art and design skills.

ART 102 - Basic Drawing – 3 CREDITS

ART 105 - Two Dimensional Design – 3 CREDITS

DMA 105 - Introduction to Computer Art – 3 CREDITS

GAM 120 - Game Theory and Culture – 3 CREDITS

## **HOSPITALITY MANAGEMENT** – 12 CREDITS

This program prepares students for employment in various entry-level management careers in the food service and lodging industries.

- HOS 100 - Hospitality Success Skills – 1 CREDIT
- HOS 101 - Food Preparation I – 3 CREDITS
- HOS 115 - Food and Culture – 3 CREDITS
- HOS 118 - Sanitation and Safety in Food Service Operations – 2 CREDITS
- HOS 104 - Hotel Management/Lodging Operations I – 3 CREDITS

## **INFORMATION TECHNOLOGY** – 12 CREDITS

This program prepares students for work in the Information Technology field. Students may pursue entry-level jobs such as network technician, network administrator; help desk specialist, customer service representative and/or any computer support specialist position.

- NET 102 - Introduction to PC Hardware & Software – 3 CREDITS
- NET 103 - IT Essentials – 3 CREDITS
- NET 104 - Fundamentals of Computer Networks – 3 CREDITS
- NET 130 - Routing and Switching Essentials – 3 CREDITS

## **NEW MEDIA AND JOURNALISM** - 12 CREDITS

The New Media program prepares students for the rapidly developing field that combines traditional media such as photography, film, music, and spoken and written word with the interactive power of computer and communications technology. Students who have traditionally pursued courses of study in journalism, public relations, advertising, and communications will find that this program substantially prepares them to enter the work force or transfer to communications programs at four-year universities.

- PHO 103 - Introduction to Digital Photography – 3 CREDITS
- CMN 131 - Journalism I – 3 CREDITS
- CMN 146 - Social Media Technologies – 3 CREDITS
- CMN 231 - Journalism II – 3 CREDITS

## **PHOTOGRAPHY** - 12 CREDITS

The Photography and Digital Imaging program provides graduates with entry-level employment skills in the rapidly changing professional photography field. The program includes foundation courses in basic photography, digital photography, digital imaging, studio and documentary photography.

- PHO 103 - Introduction to Digital Photography - 3 CREDITS
- PHO 110 - History of Photography - 3 CREDITS
- PHO 203 - Digital Photography - 3 CREDITS
- PHO 251 - Documentary Photography - 3 CREDITS

## **PRE-ENGINEERING** – 13 CREDITS

This program offers high school students the opportunity to study pre-engineering as it relates to structural and civil engineering skills. All students must have taken High School Physics to be accepted to the program.

- CIV 230 - Mechanics of Solids – 4 CREDITS
- CIV 227 - Structural Steel Design – 3 CREDITS
- CIV 103 - Statics – 3 CREDITS
- CIV 228 - Reinforced Concrete Design – 3 CREDITS

## **RADIO AND TELEVISION PRODUCTION** – 12 CREDITS

This program provides practical hands-on work with state-of-the-art production studio equipment. In addition, the program emphasizes and develops communication skills.

CMN 141 - Introduction to TV Production – 3 CREDITS

CMN 142 - Intermediate TV Production – 3 CREDITS

CMN 151 - Introduction to Radio – 3 CREDITS

CMN 153 - Digital Audio Production – 3 CREDITS

## **THEATRE** – 12 CREDITS

The Theatre program combines intensive classroom study and performance to challenge the serious student who aspires to a career in the entertainment industry.

THR 101 - Introduction to Theatre – 3 CREDITS

THR 104 - Fundamentals of Acting – 3 CREDITS

THR 105 - Acting II: Principles of Characterization – 3 CREDITS

THR 210 - Theatre History: Classical to Elizabethan – 3 CREDITS

## **VISUAL ARTS** - 12 CREDITS

The Visual Arts program provides students with an understanding of the arts of both western and non-western societies, including so-called primitive cultures. There is an emphasis on drawing, painting, and printmaking courses, develops students' technical skills and personal expression, and provides a deeper knowledge and appreciation of art history.

ART 102 - Basic Drawing (Kerney Campus) – 3 CREDITS

ART 104 - Life Drawing – 3 CREDITS

ART 105 - Two-Dimensional Design – 3 CREDITS

ART 121 - History of Art I – 3 CREDITS



# INDUSTRY CERTIFICATIONS

## **Auto CAD**

Architectural/Engineering Design

## **Automated External Defibrillator (AED), American Heart Association**

Health Occupations  
Pre-Nursing  
Medical Assistant

## **Cardiopulmonary Resuscitation (CPR), American Heart Association**

Health Occupations  
Health Science Academy  
Pre-Nursing  
Medical Assistant

## **Microsoft Office Specialist**

Business Technology

## **National Automotive Technicians Education Foundation (NATEF) Certified Programs**

Automotive Technology  
Automotive Technology Fundamentals  
Automotive Collision Technology

## **New Jersey Board of Cosmetology and Hairstyling License**

Cosmetology

## **Occupational Safety Health Administration (OSHA) 10-hour Course**

Building Maintenance Trades  
Automotive Technology  
Automotive Technology Fundamentals  
Automotive Collision Technology  
Carpentry  
Diesel Technology  
Electrical Construction  
Graphic Arts Technology  
Heating, Ventilation, Air Conditioning and  
Refrigeration Technology  
Horticulture and Turf Care Management

## **PrintEd, Graphic Arts Education and Research Foundation (GAERF)**

Graphic Arts Technology

## **REVIT Architecture**

Architectural/Engineering Design

## **ServSafe**

Baking and Dining Services  
Culinary Arts  
Culinary and Pastry Arts

## **Universal Certification in Refrigerant Handling**

Heating, Ventilation, Air Conditioning and  
Refrigeration Technology

*The certifications listed above may be earned upon successful completion of the respective program.*

# FULL-TIME ACADEMIES

## MERCER COUNTY



## TECHNICAL SCHOOLS

### Academy of Culinary Arts

*Arthur R. Sypek Center*

In September 2016, the Mercer County Technical School District launched a full-time, 4 year Academy of Culinary Arts at the Arthur R. Sypek Center. The Academy of Culinary Arts provides Mercer County high school students with an academically challenging and rigorous curriculum. Students work toward the completion of Mercer County Community College credits and industry credentials while in high school. In addition, student learning is enhanced through key business partnerships allowing for multiple workplace readiness and experiential learning opportunities.

#### OCCUPATIONAL OUTLOOK

A Spring 2015 report indicates Food Service jobs are projected to continue creating the greatest number of new jobs (26,300) in the Retail, Hospitality and Tourism sector from 2012 to 2022. This indicates a faster than average growth.

#### RELATED CAREERS

Private chef, restaurant owner, restaurant manager and hospitality manager.


#### QUALITIES FOR SUCCESS

Business skills, communication skills, creativity, dexterity, leadership skills, physical stamina, sense of taste and smell, and time-management skills.


#### SKILLS /KNOWLEDGE

- Determining food presentation and creating displays
- Planning menus and banquets events
- Monitoring kitchen safety and food sanitation

Source: [www.bls.gov](http://www.bls.gov)

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129 Bull Run Road  
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# 2019-2020

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# MERCER COUNTY



## TECHNICAL SCHOOLS

### Health Science Academy

*Assunpink Center*

The Health Science Academy is a full-time, 4-year program offered by the Mercer County Technical School District. The Health Science Academy offers self-motivated students a comprehensive preparation for careers in the health, medical and biological sciences. Students work and study in a creative environment enhanced by contact with specialists in the health care fields. Personal and career counseling coupled with field experiences prepares each student for college and careers. The Health Science Academy is affiliated with colleges, universities, private practitioners and medical and research facilities in order to enhance a rigorous curriculum.

#### OCCUPATIONAL OUTLOOK

Employment of health care occupations is projected to grow 19% between 2014 and 2024.

#### RELATED CAREERS

Acute and Critical Care Nurse, Dentist, Laboratory Scientist, Medical Doctor, Pharmacist, Physical Therapist, Radiologist, Registered Nurse and LPN, Veterinarian.

#### SKILLS/KNOWLEDGE

Critical-thinking skills, communication skills, compassion, detail oriented, emotional stability, organizational skills, physical stamina.

#### SKILLS /KNOWLEDGE

- Record patients medical histories and symptoms
- Administer patients medicines and treatments
- Set up plans for patients care or contribute to existing plans
- Observe patients and record the observations
- Consult and collaborate with doctors and other healthcare professionals
- Operate and monitor medical equipment
- Teach patients and their families how to manage illnesses or injuries

Source: [www.bls.gov](http://www.bls.gov)

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# MERCER COUNTY



## TECHNICAL SCHOOLS

### STEM Academy

*Arthur R. Sypek Center*

In September 2015, the Mercer County Technical School District launched a full-time, 4-year STEM Academy on the West Windsor Campus of Mercer County Community College. The STEM Academy will deliver academically challenging and rigorous curriculum including Project Lead The Way, an activity-, project-, and problem-based curriculum. Students will work toward the completion of college credit and industry credentials while in high school. Student learning will be enhanced through key business partnerships allowing for multiple workplace readiness and experiential learning opportunities. In this specialized learning environment, students will apply what they know, identify problems, find unique solutions, and lead their own learning.

#### OCCUPATIONAL OUTLOOK

Employment in occupations related to STEM—science, technology, engineering, and mathematics—is projected to grow to more than 9 million between 2012 and 2022.

#### RELATED CAREERS

Architectural and engineering managers, Atmospheric and space scientists, Computer occupations and Machinists.


#### SKILLS/KNOWLEDGE

Decision making skills, leadership skills, math skills, organizational skills, problem-solving skills, speaking skills, writing skills.


#### SKILLS /KNOWLEDGE

- Produce designs and drawings using computer drafting programs
- Use of numerical, spatial, and logical relationships to study and solve problems and electrical systems
- Performing routine vehicle maintenance

Source: [www.bls.gov](http://www.bls.gov)

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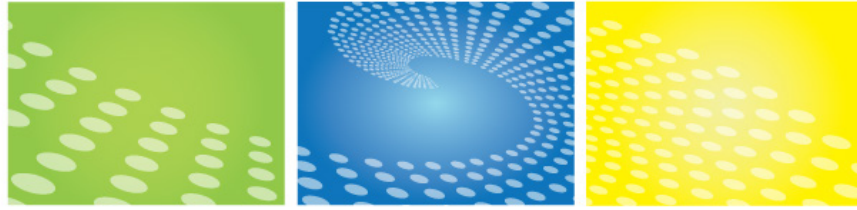
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Health Careers Center  
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# MERCER COUNTY



# TECHNICAL SCHOOLS

## ADMISSIONS

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MERCER COUNTY



TECHNICAL SCHOOLS

# THE MCTS EXPERIENCE

SCHOOL PODCAST WITH MICHAEL "MICK" ORFE AND DAVID NASH

