

## SHOP DESCRIPTIONS

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### **AGRISCIENCE TECHNOLOGY • MRS. NAYLOR**

This shop includes two (2) production greenhouses, acres of land, a laboratory for landscape design and construction projects, and a simulated retail horticultural business that offers opportunities in product development, marketing and salesmanship. The Program is taught using the comprehensive CASE (Curriculum for Agricultural Science Education) Model. Using four full years of instruction, students finishing this course will have completed the Plant Pathways, offering articulation for some of the courses with local colleges. Core Content Curriculum Standards are fully addressed, aligning with the State Of NJ Career and Technical Education Standards. The diversity of this course will prepare students for employment within the field of agriculture, from entrepreneurship to skilled trade, to college/research. Junior and Senior year, the application of a Financial Literacy Business Plan is also incorporated, addressing the Educational Standards for 9.1: Financial Literacy.

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### **ARCHITECTURAL TECHNOLOGY • MR. MALAVE**

Architectural Drafting/CAD is designed to challenge students interested in architecture, building, construction, computers, drawing, design, and engineering. Students translate design drawings into working drawings manually and through the use of computer assisted drafting systems. Graduates are employed as drafters for architects, mechanical engineers, structural engineers, civil engineers, surveyors, and developers.

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### **ARTS TECHNOLOGY • MS. ANELLO**

This program includes scene design, costume design, lighting and audio design, stage management, projections, stage craft, computer aided drafting for performances, live sound and audio engineering, model making, rigging, special effects, set design and entertainment technology.

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### **AUTOMOTIVE TECHNOLOGY • MR. DOMBROWSKI**

The Auto Mechanics program provides students the opportunity to excel in specialized training of automotive engine operations, vehicle maintenance and repair, steering and suspension systems, computerized engine control, brake systems, electrical systems, fuel and ignition systems, and front end alignment. A challenging curriculum prepares students with opportunities to master skills required to pass Automotive Service Excellence (ASE) certification examinations. Graduates may pursue employment, continue their education, or enroll in the Associate Degree program in Automotive Technologies at Middlesex County College. This is a joint program between the college, the Middlesex County Vocational and Technical High School and Ford Motor Company. (Currently this program offers a post-secondary articulation agreement with Ohio Technical College (12), Universal Technical Institute (12) and Fairleigh Dickinson University (3).

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### **BAKING • MS. GENCO**

Graduates of the Baking program enter culinary careers to become bakers, pastry chefs, production workers, merchandising/marketing sales personnel, managers, supervisors, and business owners. Instruction is provided in production, mixing, molding, bench makeup, oven work, cake decorating, sales and delivery, sanitation, and safety engineering. Students participate in storefront, buffet and banquet operations. (Currently this program offers a post-secondary articulation agreement with The Art Institute of Philadelphia (9), Atlantic Cape Community College (5) and Johnson & Wales University (3-9).

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### **COSMETOLOGY/HAIRSTYLING • MRS. WOLANSKY**

An exciting career in Cosmetology and Hairstyling offers many opportunities to both men and women. Students are trained to do all phases of hairdressing and cosmetology including preparing materials, demonstrating and selling materials, shampooing, manicuring, hairstyling, barbering, hair conditioning, facials, and makeup. This course also includes hair cutting, rinsing, coloring, and permanent waving. Successful completion of this course prepares students for examination requirements for licensure by the State Board of Cosmetology.

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### **HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION TECHNOLOGY • MR. WASS**

Students will be taught the skills necessary for proper maintenance, servicing, repair, installation of gas, electric, solar heating and cooling units for commercial and domestic use.

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### **MACHINE TOOL TECHNOLOGY • MR. HARROLD**

The Machine Tool Technology Program will challenge students who are interested in design, engineering, or computers. Instruction includes blueprint reading, machine theory, metallurgy, measuring techniques, and computerized numerical control. Students work with all types of metal alloys, plastics, wood, and composite materials.

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### **PRE-ENGINEERING & MANUFACTURING TECHNOLOGY • MR. MERCADANTE**

This course offers instruction on tools, materials, production process, machine operations, automated line operations, technical and quality control, engineering analysis, instrumentation, programmable logic controllers (PLCs), electronic, hydraulics and pneumatics, process control, computer aided design (AD), computer aided manufacturing (CAM), and robotics.

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## **SCHOOL OF THE ARTS**

### ***Auditions Required***

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#### **DANCE • MS. MACK**

The School of Performing Arts educates and prepares students who have demonstrated a strong interest in the fields of Dance and Theatre. Dance students have a daily dance techniques class in modern dance, ballet or jazz. The dance curriculum includes choreography, dance production, criticism and dance history. This program provides professional training and preparation for advanced post-secondary studies.

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#### **DIGITAL FILMMAKING • MR. LIBITZ**

A program that prepares individuals to communicate dramatic information, ideas, moods and feelings through the making and production of films and videos. This program includes instruction in theory of film, film technology and equipment operation, film production, film directing, cinematographic art, film audio, techniques for making specific types of films and/or videos, media technologies, computer image making, multimedia production and the planning and management of film/video operations. It will emphasize students in becoming both a competent technician as well as a thinking producer. Just as important as gaining the knowledge of the technology of Media Arts, but also coming to appreciate and using it as a creative and expressive medium.

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#### **GRAPHIC DESIGN/COMMERCIAL ART & ILLUSTRATION • MRS. SOBOLEWSKI**

In the Graphic Design curriculum students will learn skills such as layout and design, computer graphics, color theory, typography, photography, composition, image creation and editing. Students use Apple Computers and programs such as Adobe Photoshop, Illustrator and InDesign. Students learn visual communication, problem-solving and creative thinking. There are a variety of assignments and projects given. Using the Graphic Design skills students create posters, book covers, .gifs, interactive magazines, albums, logos, packaging, advertisements, and portraits for a charity to name a few. Individuals graduate with a strong printed portfolio as well as a .pdf and web based portfolio.

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#### **MULTIMEDIA ART & DESIGN • MR. TIEDEMANN**

Multimedia, Art, & Digital Design is structured as a synthesis of the classical realistic old master studio atelier experience coupled with state of the art digital technologies to maximize and enhance each students' artistic abilities as they master both traditional and technological skill sets. Artistic and technological disciplines include areas such as: art foundations, drawing, painting, anatomy, art history, illustration, digital media communications, design & composition, digital photography, CGI special effects, digital literacy, social media, website design, animation, video game design, 3D printing & scanning, portfolio preparation, industrial design, and emerging digital technologies.

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#### **MUSIC PERFORMANCE AND TECHNOLOGY • MR. GREATOREX**

This program will prepare students for career pathways in both musical performance and audio technology. Instruction will include music theory, history, composition, acoustics, live and studio performance, scoring for film, dance, theater and multimedia projects, instrumental, ear and voice training, audio recording technology, electronic music synthesis, entertainment and music as business and career options, entertainment law and more.

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#### **THEATRE • MR. HOMER**

The School of Performing Arts educates and prepares students who have demonstrated a strong interest in the fields of Dance and Theatre. Students are immersed in an innovative arts infused curriculum that is challenging and incorporates performance-based learning. The theatre curriculum includes acting techniques, principals of production and design, theatre history, improvisation, directing, playwriting and criticism. This program provides professional training and preparation for advanced post-secondary studies.

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