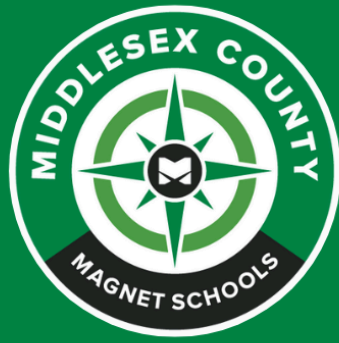




**COLLEGE READY.
CAREER READY.
LIFE READY.**

Middlesex County Innovation Magnet School Career Programs

Sustainable Construction and Environmental Technology

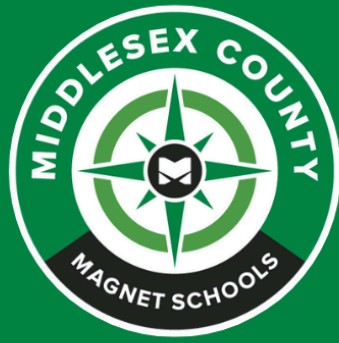
A program that focuses on the application of advanced technology to building design and construction, retrofitting existing buildings, and efficient operation of buildings, including lighting and daylight design, acoustics, solar design, building conservation, and energy-conscious design. Includes instruction in architecture, building technology, civil and structural engineering, mechanical engineering, environmental control systems, sustainability, remediation techniques and computer applications.

Sustainable Energy Technology

A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing energy-efficient systems, monitoring energy use and alternative or clean energy systems such as solar and wind technology. Includes instruction in principles of energy conservation, instrumentation calibration, monitoring systems and test procedures, energy loss inspection procedures, energy conservation techniques, and report preparation.

Logistics, Robotics and Drone Technology

A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using robots and drone technology. Includes instruction in the principles of robotics, drones, design and operational testing, system maintenance and repair procedures, computer systems and control, system types and applications to specific industrial tasks, and report preparation.



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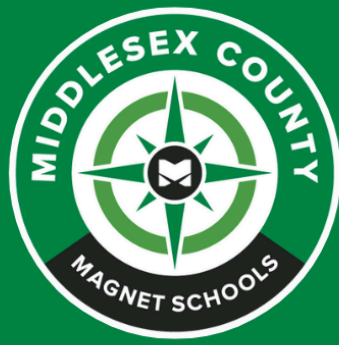
Middlesex County Innovation Magnet School Career Programs

Information, Communication & Cybersecurity

A program that prepares individuals to apply business skills to design, implement, and manage the voice, video, and data networking systems of organizations. Includes instruction in telecommunications concepts and technologies, network operations and management, wireless communications and mobile computing, cybersecurity, regulation and public policy, business practices and management, and written and oral communications.

Biotechnology and Plant Science

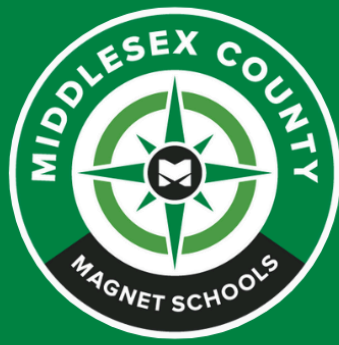
A program that focuses on agricultural principles and practices that, over the long term, enhance environmental quality, make efficient use of nonrenewable resources, integrate natural biological cycles and controls, and are economically viable and socially responsible; and that may prepare individuals to apply this knowledge to the solution of agricultural and environmental problems. Includes instruction in principles of agroecology, crop and soil sciences, entomology, horticulture, animal science, weed science and management, soil fertility and nutrient cycling, applied ecology, agricultural economics, and rangeland ecology and watershed management.



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