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**ENGINEERING
DESIGN AND
ADVANCED MANUFACTURING**

Morris County Vocational School District

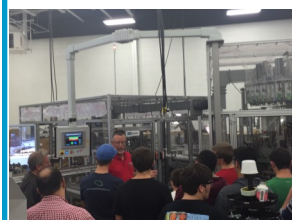
In partnership with
County College of Morris

Career & Technical Education
Share Time High School Program

Engineering Design and Advanced Manufacturing Share Time High School Program



Engineering Design and Advanced Manufacturing (EDAM) is a Share Time program offered by Morris County Vocational School District and County College of Morris (CCM). Located on the campus of CCM in Randolph, this program offers students classes in engineering, computer science, electronics, and other technology applications to earn college credits before high school graduation. Students enrolled in EDAM will also earn CCM certificates of Achievement in Mechanical Computer Aided Drafting and Engineering Technology. Every year, additional CCM courses will be offered to EDAM students through the Winterim and Early Summer I sessions. The courses will either be designed to have students meet math requirements for the program or meet degree requirements for the Mechanical Engineering Technology program at CCM.



EDAM program partners include Manufacture NJ Talent Network, New Jersey Business and Industry Association, National Manufacturing Company, Siemens HealthCare and New Jersey Manufacturing Extension Program. These partnerships provide students with work-based learning experiences to gain hands-on training in workplace practices and an inside track to employment opportunities upon program completion.



EDAM program completers also have the option of continuing at CCM to earn an Associate's Degree in Mechanical Engineering Technology just one year post high school graduation. Students earning this Associate's degree will be able to seamlessly transfer to New Jersey Institute of Technology and earn a Bachelor's Degree in Engineering Technology or Mechatronics.



EDAM is part of the NASA HUNCH Build to Print Program in which students fabricate parts for the International Space Station. Students in Year 1 will build parts for the International Space Station and Year 2 students compete in the NASA HUNCH Design Challenge.

Engineering Design and Advanced Manufacturing Scope and Sequence

Year 1

FALL	Credits
Basic Engineering Graphics	1
Computer-Aided Drafting 1	2
Materials for Engineering Technology	4
SPRING	Credits
Technical Computer Applications	1
Instrumentation and Measurements	2
Mechanical Prototyping	2
Computer Integrated Manufacturing	2
Total Credits Year 1	14

Year 2

FALL	Credits
Electronic Fabrication	1
Computer Aided Drafting II	2
Technical Computer Programming	2
Statics	3
SPRING	Credits
Electricity and Electronics	4
Strength of Materials for Engineering Technology	3
Advanced Manufacturing	3
Total Credits Year 2	18