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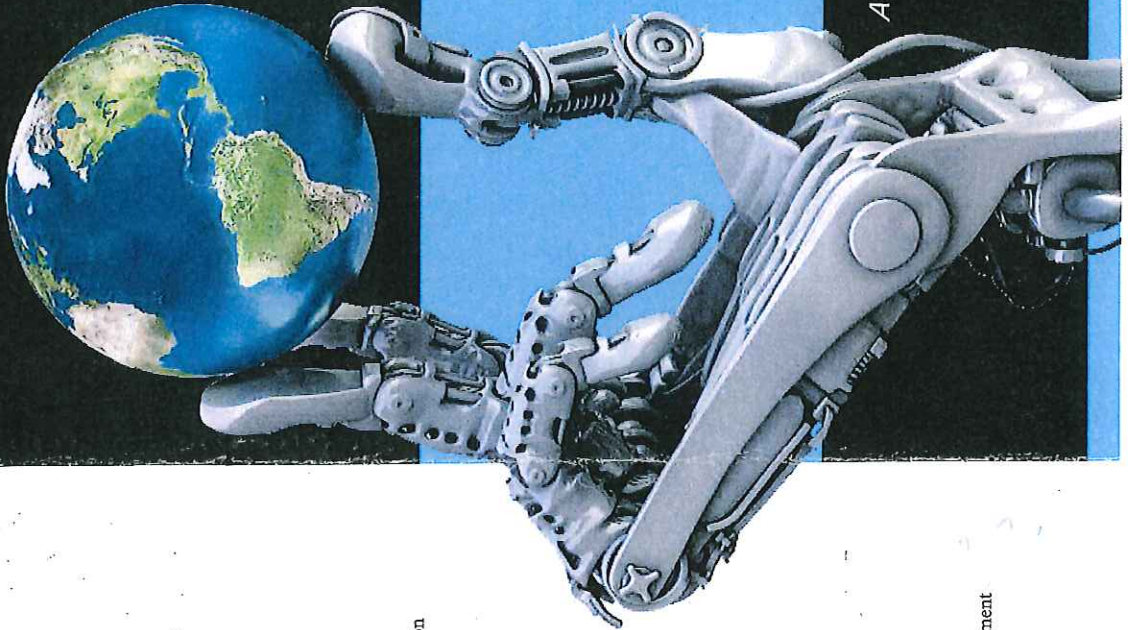
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ENGINEERING DESIGN AND ADVANCED MANUFACTURING



*A Morris County School of Technology/
County College of Morris
Career & Technical Education
Share-Time High School Program*

Engineering Design and Advanced Manufacturing Share-Time High School Program

The Engineering Design and Advanced Manufacturing (EDAM) program offers high school juniors and seniors the opportunity to take classes in engineering, computer science, electronics and other technology applications to earn 32 college credits before high school graduation. Students enrolled in this program will also earn County College of Morris Certificates of Achievement in Mechanical Computer Aided Drafting and in Engineering Technology.

This share-time program, located on the campus of the County College of Morris (CCM) in Randolph, NJ, consists of two years, during which EDAM students learn in CCM's newly remodeled, state-of-the-art engineering labs to obtain key skills required to work in the rapidly expanding field. 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.

Whichever pathway EDAM program completers take, they will have a multitude of opportunities for employment in the advanced manufacturing industry or for post secondary education.



Engineering Design and Advanced Manufacturing Scope and Sequence^

Year 1

Fall		Credits
ENR 103 Basic Engineering Graphics		1
ENR 117 Computer Aided Drafting I		2
MEC 110 Material for Engineering Technology		4
Spring		
ENR 119 Technical Computer Applications		1
ENR 124 Instrumentation and Measurements		2
MEC 117 Mechanical Prototyping		2
MEC 118 Computer Integrated Manufacturing		2
Total Credits Year 1		14

Year 2

Fall		Credits
ENR 118 Computer Aided Drafting II		2
ENR 120 Technical Computer Programming		2
ELT 110 Digital Principles		3
Spring		
ELT 201* Electricity and Electronics		4
MEC 141* Strength of Materials for Engineering Technology		4
MEC 104* Statics		3
Total Credits Year 2		18
Total End Credits		32

^ Courses are subject to change

* Requires College Algebra as Prerequisite