

# HILLIARD MIDDLE SENIOR HIGH

M I C H A E L B R O C K

# MANUFACTURING AND MACHINING

The Manufacturing Career Cluster incorporates six pathways: 1) Production; 2) Manufacturing Production Process Development; 3) Maintenance, Installation & Repair; 4) Quality Assurance; 5) Logistics & Inventory Control, and 6) Health, Safety & Environmental Assurance. Hundreds of manufacturing educational opportunities in a variety of trades and programs are offered throughout the state in school districts, colleges and universities.

THIS PROGRAM OFFERS A SEQUENCE OF COURSES THAT PROVIDES COHERENT AND RIGOROUS CONTENT ALIGNED WITH CHALLENGING ACADEMIC STANDARDS AND RELEVANT TECHNICAL KNOWLEDGE AND SKILLS NEEDED TO PREPARE FOR FURTHER EDUCATION AND CAREERS IN THE MANUFACTURING CAREER CLUSTER

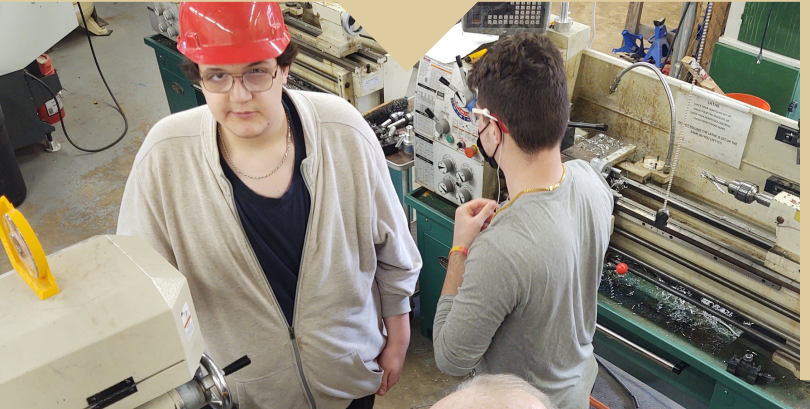


THE CONTENT INCLUDES BUT IS NOT LIMITED TO PROVIDING STUDENTS WITH A FOUNDATION OF KNOWLEDGE AND TECHNICALLY ORIENTED EXPERIENCES IN THE STUDY OF AUTOMATION TECHNOLOGY, ITS APPLICATION IN MANUFACTURING, ENGINEERING AND ROBOTICS, AND ITS EFFECT UPON OUR LIVES AND THE CHOOSING OF AN OCCUPATION. THE CONTENT AND ACTIVITIES WILL ALSO INCLUDE THE STUDY OF ENTERPRISE SYSTEMS, SAFETY, QUALITY, AND LEADERSHIP SKILLS. THIS PROGRAM FOCUSES ON TRANSFERABLE SKILLS AND STRESSES UNDERSTANDING AND DEMONSTRATION OF THE TECHNOLOGICAL TOOLS, MACHINES, INSTRUMENTS, MATERIALS, PROCESSES AND SYSTEMS IN BUSINESS AND INDUSTRY.

MANUFACTURING COURSES PROVIDE TECHNICAL SKILL PROFICIENCY, AND INCLUDES COMPETENCY-BASED APPLIED LEARNING THAT CONTRIBUTES TO THE ACADEMIC KNOWLEDGE, HIGHER-ORDER REASONING AND PROBLEM-SOLVING SKILLS, WORK ATTITUDES, GENERAL EMPLOYABILITY SKILLS, TECHNICAL SKILLS, AND OCCUPATION-SPECIFIC SKILLS, AND KNOWLEDGE OF ALL ASPECTS OF THE MANUFACTURING CAREER CLUSTER



THE NIMS CREDENTIALS CERTIFY AN INDIVIDUAL'S SKILLS AS MEASURED AGAINST THE NIMS STANDARDS. EARNING NIMS CREDENTIALS REQUIRES A PERFORMANCE TEST AND A THEORY TEST. THE PERFORMANCE REQUIREMENTS AND THEORY TESTS ARE DRAWN DIRECTLY FROM THE NIMS STANDARDS, AND ARE WRITTEN AND PILOTTED BY INDUSTRY.



FLORIDA MACHINE WORKS



PROUD MEMBER  
FIRST COAST MANUFACTURERS ASSOCIATION



Third and fourth year students enrolled in manufacturing are eligible to apply for the Florida Machine Works internship. This paid internship gives students on the job training in the manufacturing industry and is located in Yulee, Florida.

