

Academy of Manufacturing Technology

Career Pathway: Manufacturing

Program Strand: Manufacturing Studies

Students who choose a career in Manufacturing Studies understand the role of technology in everyday life along with the broad range of technology skills which are involved within the fields of engineering, design, invention, construction, information technology, and innovation.

Secondary Career Academy Development Timetable Academy classes are listed in bold type.

Pre-Academy Grades 6 – 8	Grade 9	Grade 10	Grade 11	Grade 12
6 th grade—Middle Moves 7 th grade—Career Preparation Requirement 8 th grade—Transition Tools MJ Wheel 8600020015 Introduction to Technology 860001001 Exploring Technology 860002012 Exploration of Production Technology 860005001 Exploration of Power & Energy Technology 860025002	English I	English II	English III	English IV
	Algebra or higher	Geometry or higher	Algebra II or higher	Pre-calculus or Other Mathematics Course
	Earth & Space Science or Biology	Biology or Chemistry	Chemistry or Physics or Physical Science	Science Elective or Other Elective
	World History	Elective	American History	American Government / Economics
	9 th Grade Transition	Foreign Language or Other Elective	Foreign Language or Other Elective	Foreign Language or Other Elective
	Machining 1 8754010	Machining 3 8754030	Machining 5 8754050	Machining 7 8754070
	Machining 2 8754020	Machining 4 8754040	Machining 6 8754060	Machining 7 8754080
Elective	Elective	Elective	Internship	

Suggested Electives:

- Students may in their Junior or Senior year opt to participate in the Career Experience Opportunity (CEO) internship program using the following course numbers: Workplace Essentials – 83003101A (Honors .5) and CEO internship – 0500330CE (Honors .5).
- Students may complete more than one program within the Academy of Manufacturing Technology providing courses are offered at the school site.
- In addition, students can choose to enroll in Drafting/Illustrative Design Technology or Materials & Processes classes to enhance their marketability.

To find a Miami-Dade County Public High School with this Program Strand, please link to http://ssr.dadeschools.net/acad_tally_schls.pdf

Internship Opportunities	Student Organizations / Clubs	Earn Upon Completion
<ul style="list-style-type: none"> • Internship • Cooperative Education • Job Shadowing • Portal to CEO 	<ul style="list-style-type: none"> • School-Based Enterprise • Service Learning • Dual Enrollment 	<ul style="list-style-type: none"> • SkillsUSA
		<ul style="list-style-type: none"> • Industry Title & FLDOE OCP's correlated to the individual areas. • For more information on the Florida Department of Education Bright Futures Scholarship Programs: Florida Academic Scholars Award (FAS), Florida Medallion Scholars Award (FMS), and Florida Gold Seal Vocational Scholars Award (GSV) please contact a guidance counselor or visit: http://www.floridastudentfinancialaid.org/ssfad/factsheets/BF.htm. • For more information on advanced standing at local public and private post secondary institutions as established per articulation agreements please contact a guidance counselor.

POSTSECONDARY OPTIONS

Certification Programs	Community College (A.A./A.S.) or Proprietary Programs	Four-Year College and University Programs
<ul style="list-style-type: none"> • Machine Shop Technology • Machine Tool Technology 	<ul style="list-style-type: none"> • Machine Shop Technology • Machine Tool Technology 	<ul style="list-style-type: none"> • Materials Engineering • Industrial Design • Product Design • Energy and Power Technology
		<ul style="list-style-type: none"> • FIU Department of Construction Management • Univ. of North Florida Building Construction Management Dept. • Univ. of Florida College of Design, Construction and Planning

CAREER OPTIONS

Entry Level	After Post-Secondary Education	
<ul style="list-style-type: none"> • Machinist Helper • Machine Operator 	<ul style="list-style-type: none"> • Machine Set-up Operator 	
		<ul style="list-style-type: none"> • Machinist • Machine Shop Manager • Product Designer
		<ul style="list-style-type: none"> • Machine Shop Owner • CNC Operator • Materials Engineer