


Career Cluster: Manufacturing					CTE Program: Applied Welding Technologies			
Career Cluster Pathway: Maintenance, Installation & Repair Career					Industry Certification: Certified Welder; MSSC Certified Production Technician; NCCER Welder (Levels 1-3); NOCTI Welding; Skill Connect Assessment - Welding			
	16 CORE CURRICULUM CREDITS					8 ADDITIONAL CREDITS		
	ENGLISH 4 credits	MATH 4 credits	SCIENCE 3 credits, 2 with lab	SOCIAL STUDIES 3 credits	OTHER REQUIRED COURSES FINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit)	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES <small>(ALIGNED WITH COMMUNITY COLLEGE & STATE UNIVERSITY SYSTEM PROGRAMS)</small>	
HIGH SCHOOL	Students are encouraged to use fichoices.org to explore careers and postsecondary options.							
	Students are also encouraged to participate in dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.							
	9th	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Physical Education (1credit)	Applied Welding 1	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	10th	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Practical Arts or Fine Arts course (1 credit)	Applied Welding 2	Foreign Language for SUS admission or other elective appropriate for student's career and education plan.
	11th	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Applied Welding 4-7	Applied Welding 3	Other elective course appropriate for student's career and education plan.
	12th	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Please see Graduation Checklist	Applied Welding 4-7	Applied Welding 4-7	Other elective course appropriate for student's career and education plan.
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL CENTER PROGRAM(S)	COMMUNITY COLLEGE PROGRAM(S)				UNIVERSITY PROGRAM(S)		
	Applied Welding Technologies Drafting Manufacturing Industrial Maintenance Iron Worker Millwright	Industrial Management Technology A.S Architecture Engineering Technology Support Specialist (CCC) Engineering Technology (AS) Construction Technology Applied Welding Technology Certificate Manufacturing Technology (AS)				Welding Engineering (BS) FAMU Mechanical Engineering (BS) UF Materials Science & Engineering (BS) Hobart Institute of Welding Technology, Ohio Industrial Engineering Technology (BS) Industrial Engineering (MS)		

Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)			
CAREER	<p>Welders, Cutters, Solderers, and Brazers - SOC Code 51-4121 (Pipe, Shielded Metal Arc, Gas Metal Arc, Flux Cored Arc, Gas Tungsten Arc)</p> <p>Helpers – Production Workers – SOC Code 51-9198 Shipfitter</p> <p>Industrial Maintenance Mechanics Industrial Maintenance Technicians</p> <p>Plumbers, Pipe Fitters, and Steam Fitters</p> <p>Fire Protection System Installer</p>	<p style="text-align: center;">Welder</p> <p>General and Operations Managers – SOC Code 11-1021 Electrical and Electronic Technicians and Technologists Engineering and Related Technicians and Technologists Engineering Technicians Manufacturing Technicians Purchasing Agents</p>	<p>First Line Supervisor of Personal Services Workers Welding Supervisor, Inspector, Instructor, Engineer Mechanical Engineer</p>
CREDIT	<p>Secondary to Technical Center (PSAV) Dual Enrollment Local Articulation Agreements</p>	<p>Secondary to College Credit Certificate or Degree 15 college credits through statewide articulation agreement based industry certification MSSC Production Technician (See articulation agreement details at http://www.fl DOE.org/workforce/dwdframe/artic_frame.asp) Local Articulation Agreements by joint assessment</p>	<p>PSAV/PSV to AAS or AS/BS/BAS Local Articulation Agreements</p>
Career and Technical Student Association			
SKILLSUSA			
Internship/Work Experience Recommendations			
<p>On-the-job training is appropriate but not required for this program. Whenever offered, the rules, guidelines, and requirements specified in the OJT framework apply. Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements. See the Articulation Coordination Committee's Dual Enrollment Equivalence List and the Bright Futures Comprehensive Course Table.</p>			