

**Jump Start 2.0 Associate of Applied Science: Technical Studies Concentration in Welding**

Postsecondary Partner: [Louisiana Delta Community College](#)

**Overview**

The Technical Diploma in Welding prepares individuals for employment in the field of welding. Instruction is provided in various processes and techniques of welding including oxyfuel cutting, carbon arc cutting, shielded metal arc welding, gas tungsten arc welding, flux-cored arc welding, gas metal arc welding, pipe-welding, plasma arc cutting, blueprint reading, weld symbols and joints. After completion of this program, the student will have learned the skills identified by the [American Welding Society \(AWS\)](#) to be prepared to take the AWS Entry Level Welder test.

**Capstone Credentials**

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
- <a href="#">NCCER Welding Helper</a>	-Certificate of Technical Studies: Arc Welder - GMAW -Certificate of Technical Studies: Arc Welder - GTAW -Certificate of Technical Studies: Arc Welder - SMAW <a href="#">-NCCER Welding Level 1</a>	-Technical Diploma: Welding <a href="#">-NCCER Welding Level II</a>	-Associate of Applied Science: Technical Studies Concentration in Welding

*\*Core Academic Course*

*\*\*Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English I 120331	*Physical Education I 190105
*Algebra I 160321	*Civics 220501/220504
**Quest for Success 080411 or Jobs for America's Graduates 1 042010	*Agriscience II 010302 or Environmental Science 150310
**Intro to Bus Comp Apps 040401 or Agriscience I 010301	**Cyber Society (NICERC Partnership) 040218

Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English II 120332	*Biology 150301
*Financial Literacy 160345 or Geometry 160323	**Jobs for America's Graduates 3 042030 or Remote Controlled Vehicle Technologies 110796
*½ Physical Education II 190106 ½ Health Education 190500	**Business Computer Applications 040400
**Jobs for America's Graduates 2 042020 or Basic Technical Drafting 110560	**DE Occ. Orientation & Safety WELD 1110/Occ. Orientation & Safety 890713

*Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.*

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*U.S. History HIST 202	*US History: DE - CHIS 2013 American History I 220407	*English Composition I ENGL 101	*English III: DE - CENL 1013 English Composition I 120601
*Business English BUSE 1030	*DE Business English 125020	**Cutting Processes - CAC/PAC WELD 1310	**DE Cutting Processes - CAC/PAC 890702
*Basic Blueprint, Metallurgy & Welding Symbols WELD 1120 (4 <sup>th</sup> math)	**DE Basic Blueprint, Metallurgy & Welding Symbols 890721	**SMAW - Basic Beads WELD 1410	**DE Basic SMAW 313120 313120
**Welding Inspection & Testing WELD 1130	**DE Welding Inspection & Testing 890720	**SMAW - Fillet Weld WELD 1411	**DE SMAW - Fillet Weld 890718

**Oxyfuel Systems WELD 1210	**DE Oxyfuel Systems 890714	**Introduction to Computers CPTR 1000	**DE Intro to Bus Comp Apps 040401
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Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*College Algebra MATH 110	*Algebra III: DE - CMAT 1213 College Algebra 160500	Psychology PSYC 201 or Sociology SOCL 201	Psychology: DE CPSY 2013 - Introduction to Psychology 225011 or DE Sociology 220601
**SMAW - V-Groove Bu/Gouge WELD 1412	**DE SMAW Groove Welds 313121	**Job Seeking Skills JOBS 2450	**DE Advanced Career Readiness 080410
**SMAW-V-Groove Open WELD 1420	**DE SMAW-V-Groove Open 890719	*Natural Science (General Biology I BIOL 101 <b>OR</b> Physical Science I PHSC 100)	*Biology II: DE - CBIO 1013 General Biology I 150323 or Physical Science: DE - CPHY 1023 Physical Science I 150915
**FCAW - Basic Fillet Welds WELD 2110	**DE FCAW - Basic Fillet Welds 890704	**GMAW - Basic Beads WELD 2210	**DE GMAW - Basic Beads 890709
**FCAW - Groove Welds WELD 2111	**DE FCAW - Groove Welds 890705	**GMAW - Basic Fillet Weld WELD 2310	**DE GMAW - Basic Fillet Weld 890710
**Intro to Public Speaking SPCM 120	**DE Speech I 051101	**GMAW - Groove Weld WELD 2311	**DE GMAW - Groove Weld 890711

*This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review panel will consider course equivalents on an as needed basis.*