

Jumpstart 2.0 Associate of Applied Science: Industrial Engineering Technology Concentration in Industrial Maintenance

Postsecondary Partner: Bossier Parish Community College

Overview

The Associate of Applied Science in Industrial Engineering Technology with concentration in Industrial Maintenance provides the graduate the skills to work within a complex manufacturing system while assessing and analyzing the system as a whole. This degree will prepare technicians for occupations which combine the diverse fields of mechanical, electrical, power transmission, fluid power, and welding and prepares students for the challenging industrial careers where technicians manage, investigate, troubleshoot, and repair manufacturing systems

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
	-Autodesk Certified		-Associate of Applied
	User AutoCAD		Science: Industrial
	-Certificate of Technical		Engineering
	Studies: Advanced		Technology
	Welding Technology		Concentration in
			Industrial Maintenance

^{*}Core Academic Course

^{**}Jump Start CTE Course

Grade 9			
Semester 1	Semester 2		
*English I 120331	*English II 120332		
*Algebra 160321	*Geometry 160323		
*Physical 150802 or Environmental Science	**Quest for Success 080411 or other career		
150310	readiness elective		
*Civics 22051/220504	*½ Health 190500 & ½ PE II 190106		

Grade 10			
Semester 1	Semester 2		
*Technical Writing 120350	**Intro to Bus Comp Apps 040401		
*Biology 150301	**Agriscience 010301		
*Algebra II 160322	*PE 190105		
*U.S. History 220403	**Entrepreneurship 041038		

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		
*ENGL 101:	*English IV: DE - CENL	**WELD 101: Survey of	**AWS Welding I		
Composition and	1013 English	Welding	313100		
Rhetoric	Composition 120606	J			
*MATH 102: College	*Algebra III: DE - CMAT	**AMFG 110:	**TBD		
Algebra	1213 College Algebra	Manufacturing			
	160500	Materials and Methods			
**SPCH 110: Public	**DE Speech 051101	**TEED 150:	**TBD		
Speaking		Pneumatics			
**TEED 101:	**TBD	**TEED 151: Power	**TBD		
Fundamentals of		Transmission			
Electricity and Lab		Technology			
**TEED 142: Print	**TBD	*Math 112:	*Adv Math-Pre Calc:		
Reading for		Trigonometry	DE- CMAT 1223		
Engineering and			Trigonometry 160501		
Manufacturing					
	Grade 12				
Seme	ster 1	Seme	ster 2		
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code		
**TEED 143:	**TBD	**TEED 252: Electric	**TBD		
Introductory Computer		Motor Controls and Lab			
Drafting Cert: Autodesk					
AutoCAD Certified User					
Certification or AFMG					
210: Computer Aided					
Manufacturing					
**TEED 153:	**TBD	**Industrial	**TBD by course		
Hydraulics/Fluid		Technology Technical	selected		
Dynamics with Lab	44	Elective	dia		
**TEED 161: Solid	**TBD	*BADM 201: Principles	*Economics: DE/CECN		
Works 3D		of Macroeconomics	2213 Macroeconomics		
*****	************	de 1 - 1 - 1	220608		
**WELD 103:	**AWS Welding II	*Humanities Elective:	*World History: DE-		
Advanced Shielded	313105	HIST 101: Western	CHIS 1113 World		
Metal Arc Welding		Civilization I	Civilization I 220450		
(SMAW) or Industrial		OR	OR World History: DE - CHIS 1123 World		
Technology Technical Elective		HIST 102 Western Civilization II	CHIS 1123 WORLD Civilization II 220451		
*PHSC 105 Elemental	*Physics I 150000	CIVIIIZatiOII II	Civilization il 220431		
Physics or PHYS 201:	*Physics I 150000				
			the state of the s		
General Physics					





Approved Electives

Postsecondary Course	LDOE Course/Code
**AMFG 110: Manufacturing Materials and Methods	**TBD
**AMFG 202: Introduction to Lean Manufacturing and Six Sigma Cert: Lean Six Sigma	**TBD
**AMFG 210: Computer Aided Manufacturing	**TBD
**OGPT 101: Introduction to the Exploration and Production of Oil and Gas	**TBD
**TEED 143: Introductory Computer Drafting	**TBD
**TEED 161: Solid Works 3D	**TBD
**TEED 162: Inventor	**TBD
**TEED 201: Introduction to Digital Electronics and Programmable Logic Controllers	**TBD
**TEED 206: Electronics Equipment and Repair	**TBD
**TEED 208: Intermediate Programmable Logic Controllers (PLCs) and Lab	**TBD







**TEED 220: Advanced Solid Works 3D	**TBD
**TEED 252: Electric Motor Controls and Laboratory	**TBD
**TEED 264: Intermediate Siemens PLC & Lab	**TBD
**TEED 280: Industrial Technology Internship	**TBD
**WELD 105: Advanced Gas Tungsten Arc Welding (GTAW)	**TBD
**WELD 107: Advanced Flux Core and Gas Metal Arc Welding (FCAW and GMAW)	**TBD
**WELD 109: Advanced Pipe Welding and Fitting	**TBD

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.

