

## Jumpstart 2.0 Associate of Applied Science: Industrial Engineering Technology Concentration in Automation and Controls

Postsecondary Partner: Bossier Parish Community College

## Overview

The Associate of Applied Science in Industrial Engineering Technology Automation and Controls program provides the graduate the opportunity to work as industrial electronic technicians in the growing Automation and Controls industry.

## **Capstone Credentials**

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
	-Autodesk Certified		Associate of Applied
	User AutoCAD		Science: Industrial
	-Certificate of Technical		Engineering
	Studies:		Technology
	Instrumentation and		Concentration in
	Electronics		Automation and
			Controls

<sup>\*</sup>Core Academic Course

<sup>\*\*</sup>Jump Start CTE Course

Grade 9			
Semester 1	Semester 2		
*English I 120331	*English II 120332		
*Algebra I 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 I		
*Algebra II 160322	*PE I 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: Composition and Rhetoric	*English IV: DE-CENL 1013 English Composition I 120606	**TEED 102: Fundamentals of Electricity and Lab II	**TBD
*MATH 102: College Algebra	*Algebra III: DE - CMAT 1213 College Algebra 160500	**TEED 201: Introduction to Digital Electronics and Programmable Logic Controllers	**TBD
**SPCH 110: Public Speaking	**DE Speech I 051101	**TEED 150: Pneumatics or TEED 153: Hydraulics/Fluid Dynamics with Lab	**TBD
**TEED 101: Fundamentals of Electricity and Lab	**TBD	*Humanities Elective: HIST 101: Western Civilization I OR HIST 102 Western Civilization II	*World History: -CHIS 1113 World Civilization I 220450 OR World History: DE- CHIS 1123 World Civilization II 220451
**TEED 143: Introductory Computer Drafting Cert: Autodesk AutoCAD Certified User Certification or TEED 161: Solid Works 3D	**TBD	*Math 112: Trigonometry	*Adv Math-Pre Calc: DE-CMAT 1223 Trigonometry 160501
		de 12	
	ster 1		ster 2
**TEED 202: Intro to Microprocessors	**TBD	**TEED 210: Robotic Control Systems or IET Elective	**TBD
**TEED 206: Electronics Equipment and Repair	**TBD	**TEED 252: Electric Motor Controls and Lab	**TBD
**TEED 208: Intermediate Programmable Logic Controllers (PLCs) and Lab or IET Elective	**TBD	*Social/Behavioral Science Elective BADM 201: Principles of Macroeconomics	*Economics: DE-CECN 2213 Macroeconomics 220608
**TEED 260: Mechatronics Level I *PHSC 105 Elemental Physics or PHYS 201: General Physics	**TBD  *Physics I 150000 or 150700	**IET Elective	**TBD by course selected







## **Approved Electives**

Postsecondary Course	LDOE Course/Code
**AMFG 110: Manufacturing Materials and Methods	**TBD
**AMFG 202: Introduction to Lean Manufacturing and Six Sigma	**TBD
**AMFG 210: Computer Aided Manufacturing	**TBD
**OGPT 101: Introduction to the Exploration and Production of Oil and Gas	**TBD
**TEED 142: Print Reading for Engineering and Manufacturing	**TBD
**TEED 150: Pneumatics	**TBD
**TEED 151: Power Transmission Technology	**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.

