

Jump Start 2.0 Associate of Applied Science: Instrumentation & Electrical Technology
Postsecondary Partner: River Parishes Community College

Overview

The Instrumentation & Electrical Technology (I&E) program is a 60-credit hour program that prepares students for a successful career as an Instrumentation Technician.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-NCCER Helper Modules • Electrical • Instrumentation	-Certificate of Technical Studies: Instrument Helper -NCCER Level 1 • Electrical • Instrumentation	-Technical Diploma: Instrumentation Tech -NCCER Level 2 • Electrical • Instrumentation	-Associate of Science: Instrumentation & Electrical Technology

*Core Academic Course
 **Jump Start CTE Course

Grade 9	
Semester 1	Semester 2
*Business English 120336	*English I 120331
*Math Essentials 160351	*Algebra I 160321
*Civics 220501/220504	*Environmental Science 150310
*Physical Education I 190105	*½ Physical Education II 190106 ½ Health Education 190500

Grade 10	
Semester 1	Semester 2
*English II 120332	*Technical Writing 120350
*Transition to College Mathematics 165040 or Algebra II 160322	*Financial Literacy 160345
*Biology I 150301	*U.S. History 220403
**Intro to Business Computer Apps 040401	**Quest for Success 080411

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
*College Algebra MATH 1000	*Algebra III: DE-CMAT 1213 160500	**Fundamentals of Semiconductors & Transistors ETRN 1212	**DE Semiconductors & Transistor Circuits 891304
**Intro to Computer Technology CSCI 1010	**DE Introduction to Computers 890346	*English Composition ENGL 1010	*English IV: DE-CENL 1013 English Comp I 120606
**Core Industry Safety CORE 1003	**DE NCCER Core 311720	**Introduction to Speech SPCH 1010 or 1020	**DE Speech I 051101
**Electrical Systems & Equipment INST 1011	**DE NCCER Instrumentation Control Mechanic 1 110721 or 313500	**Digital Circuits ETRN 1420	**DE Digital Circuits 890821
**Fundamentals of Electricity & Electronics ETRN 1112	**DE Basic Electricity- Electronics 110600	**Principles of Process Controls INST 1435	**DE Motor Controls 891302

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Physical Science PHSC 1010/Lab PHSC 1010L	*Physical Science: DE- CPHY 1023 Physical Science I 150915	Social Science – ECON, POLI, PSYCH, SOCL	TBD by course selected
**Pressure & Level Measurement INST 1330	**DE Properties of Temperature, Pressure, & Flow 890909	**Programmable Logic Controllers INST 2741	**DE Automatic Control, Controllers, and Tuning 890901
**Flow & Final Control Elements INST 1425	**DE Primary/Final Elements and Control Loops 890908	**Industrial Electrical Control Systems INST 2755	**DE Communication and Distributed Control/890902
**Temperature & Analytical Measurement INST 2732	**DE Analytical Measurement and Control 890900	**Industry Troubleshooting Capstone INST 2000	**TBD
**Motor Controls, VFD & Vibration Analysis INST 2745	**DE Motors and Motor Control 890906		

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.