

**Tops University Associate of Applied Science: Instrumentation**  
*Postsecondary Partner: Nunez Community College*

**Overview**

The Instrumentation Technician Program provides classroom and hands on training that allows students to develop the knowledge and skills to successfully perform the tasks required of an entry level Instrument Fitter and Technician. Instrument Fitters and technicians perform key installation and maintenance functions across several industries and are trained in piping, tubing, fasteners, and working with metal production. Instrumentation technicians and fitters must be familiar with electrical systems, craft-specific drawings and must be experts in the hand and power tools specific to their trade.

**Capstone Credentials**

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-NCCER Core	-NCCER Electrical Level I -NCCER Instrumentation Level I -Instrumentation Certificate of Technical Studies	-NCCER Electrical Level II -NCCER Instrumentation Level II - NCCER Electrical and Instrumentation Technical Diploma	-Associate of Applied Science in Instrumentation

*\*Core Academic Course*  
*\*\*Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
*English I 120331	*English II 120332
*Algebra I 160321	*Algebra II 160322
*Physical Education I 190105	*Biology I 150301
*Civics 220501	*1/2 Physical Education II 190106, 1/2 Health Education 190500

Grade 10	
Semester 1	Semester 2
*English III 120333	*Geometry 160323
*World History 220401	*Chemistry 150401
*Biology II 150302	*US History 220403
*Foreign Language I	*Foreign Language II

*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
*English Comp I ENGL 1010	*English IV: DE - CENL 1013 English Composition I 120606	*College Algebra MATH 1300	*Algebra III: DE - CMAT 1213 College Algebra 160500
Introduction to Construction CNST 1000	NCCER Core 311720	NCCER Electrical Construction II ELEC 1010	NCCER Electrical II 313412
NCCER Electrical Construction I ELEC 1000	NCCER Electrical 1 313402	NCCER Instrument Level II INST 1020	NCCER Instrumentation Control Mechanic II 313512
NCCER Instrument Level I INST 1010	NCCER Instrumentation Control Mechanic I 313502		

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Physical Science PHSC 1000	Physical Science: DE - CPHY 1023 Physical Science I 150915	*Art Appreciation FIAR 1200 <i>(Humanities Elective)</i>	Fine Arts Survey: DE - CART 1023 Introduction to Visual Arts 030592
NCCER Instrument Level III INST 1030	NCCER Instrumentation Control Mechanic III 313520 (need 2 credit option)	*Introduction to Psychology PSYC 1100 <i>(Behavioral Science Elective)</i>	Psychology: DE – CPSY 2013 Intro to Psychology 225011
		NCCER Instrument Level IV INST 1040	NCCER Instrumentation IV 313520 (need 2 credit option)

*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.*