

Construction Trades

Overview

The Fast Forward Construction Trades (CIP 46) pathway has four Associate Degree opportunities through Louisiana Delta Community College, Northshore Technical Community College, and Nunez Community College.

This pathway prepares students to apply technical knowledge and skills in building, inspecting, and maintaining structures and related properties. It may include instruction in masonry, carpentry, electrical and power transmission installation, building/construction finishing, management, inspection, and other construction-related applications.

Guidance Overview

This guidance is meant to help school systems and parents navigate the opportunities to complete an Associate Degree in high school. School systems should verify information with the post-secondary institution to ensure students are enrolled in the appropriate college classes to earn the associates degree.

This guidance includes:

- [Post-Secondary Degree Paths](#) details all courses required for the Applied Associate Degree. The Applied Associate Degree has limited general education courses and is primarily designed to prepare students for immediate employment or career entry.
- [Secondary Courses not included in the Post-Secondary Program of Study](#) detail all courses the student must take prior to or in tandem with the college courses to meet secondary graduation requirements. Typically, these are courses students are scheduled to take in grades 9 and 10.
- [Capstone Credentials](#) details all Industry Based Certifications a student can receive to complete the Applied Associate Degree. Students working towards a Jump Start Diploma must complete at least one capstone credential to graduate.
- [High School Transcription](#) details the LDOE course code a counselor should use to transcribe the college courses that do not have a dedicated LDOE course code.

Post-Secondary Degree Paths Approved by BESE for Fast Forward

- **Louisiana Delta Community College:**
[Associate of Applied Science: Technical Studies Concentration in Electrician](#)
[Associate of Applied Science: Technical Studies Concentration in Welding](#)
- **Northshore Technical Community College:**
[Associate of Applied Science: Technical Studies Concentration in Electrician](#)
- **Nunez Community College:**
[Associate of Applied Science: Electrical Construction](#)



Post-Secondary Degree Paths

Louisiana Delta Community College: Associate of Applied Science: Technical Studies Concentration in Electrician

Post-Secondary Course Name	Post-Secondary Course Code	Dedicated Secondary Course Name	Dedicated Secondary Course Code
English Composition I	ENGL 101	English III: DE - CENL 1013 English Composition I	120601
College Algebra	MATH 110	Algebra III: DE - CMAT 1213 College Algebra	160500
U.S. History	HIST 202	US History: DE - CHIS 2013 American History I	220407
Psychology	PSYC 201	Psychology: DE - CPSY 2013 Introduction to Psychology	225011
General Biology I or Physical Science I	BIOL 101 or PHSC 100	Biology II: DE - CBIO 1013 General Biology I or Physical Science: DE - CPHY 1023 Physical Science I	150323 or 150915
Business English	BUSE 1030		
Sociology	SOCL 201		
Technical Mathematics for Electricians	ELEC 2460		
Basic Electricity	ELEC 1120		
Residential Wiring	ELEC 1210		
Electrical Raceways	ELEC 1220		
Residential Wiring Installation	ELEC 1311		
Generators/Motors and Transformer Operation	ELEC 1330		
Introduction to Motor Control	ELEC 1420		
Blueprint Interpretation	ELEC 1430		
Freshman Seminar	ORNT 1000		
Introduction to Computers	CPTR 1000		
Solid State Theory	ELEC 2520		
National Electrical Code	ELEC 1230		
Motor Controls	ELEC 1440		
Introduction to Programmable Logic Controllers	ELEC 2720		
Logic Functions	ELEC 2540		
Job Seeking Skills	JOBS 2450		

Post-Secondary Degree Paths

Louisiana Delta Community College: Associate of Applied Science: Technical Studies Concentration in Welding

Post-Secondary Course Name	Post-Secondary Course Code	Dedicated Secondary Course Name	Dedicated Secondary Course Code
English Composition I	ENGL 101	English III: DE - CENL 1013 English Composition I	120601
College Algebra	MATH 110	Algebra III: DE - CMAT 1213 College Algebra	160500
General Biology I or Physical Science I	BIOL 101 or PHSC 100	Biology II: DE - C BIO 1013 General Biology I or Physical Science: DE - CPHY 1023 Physical Science I	150323 or 150915
US History	HIST 202	US History: DE - CHIS 2013 American History I	220407
Psychology	PSYC 201	Psychology: DE - CPSY 2013 Introduction to Psychology	225011
Sociology	SOCL 201		
Business English	BUSN 1030		
Basic Blueprint, Metallurgy & Welding Symbols	WELD 1120		
Welding Inspection & Testing	WELD 1130		
Oxyfuel Systems	WELD 1210		
Cutting Processes - CAC/PAC	WELD 1310		
SMAW - Basic Beads	WELD 1410		
SMAW - Fillet Weld	WELD 1411		
Introduction to Computers	CPTR 1000		
SMAW - V-Groove Bu/Gouge	WELD 1412		
FCAW -Basic Fillet Welds	WELD 2110		
SMAW -V-Groove Open	WELD 1420		
FCAW -Groove Welds	WELD 2111		
Intro to Public Speaking	SPCM 120		
Job Seeking Skills	JOBS 2450		
GMAW -Basic Beads	WELD 2210		
GMAW -Basic Fillet Weld	WELD 2310		
GMAW - Groove Weld	WELD 2311		

Post-Secondary Degree Paths

Northshore Technical Community College: Associate of Applied Science: Technical Studies Concentration in Electrician

Post-Secondary Course Name	Post-Secondary Course Code	Dedicated Secondary Course Name	Dedicated Secondary Course Code
English Composition I	ENGL 101	English III: DE - CENL 1013 English Composition I	120601
College Algebra Fundamentals	MATH 1005	Algebra III: DE - CMAT 1213 College Algebra	160500
Critical Reading and Writing	ENGL 102	English IV: DE - CENL 1023 English Composition II	120607
Intro to American Gov	POLI 2010	Government: DE - CPOL 2013 Introduction to American Govt	220514
Western Civilization I	HIST 1010	World History: DE - CHIS 1013 World Civilization I	220446
Environmental Biology	BIOL 1110	Environmental Science: DE - CEVS 1103 Environmental Science	150914
Basic Electricity	ELEC 1120		
Residential Wiring	ELEC 1210		
National Electric Code	ELEC 1230		
Introduction to Motor Control	ELEC 1420		
Motor Controls	ELEC 1440		
Solid State Theory	ELEC 2540		
Logic Functions	ELEC 2540		
Intro to Programmable Logic	ELEC 2720		
Electrical Raceways	ELEC 1220		
Generators/Motors & Transformers	ELEC 1330		
Residential Wiring Install	ELEC 1311		
Blueprint Interpretation	ELEC 1430		
Technical Math for Elec	ELEC 2460		
Practicum	ELEC 2997		

Post-Secondary Degree Paths

Nunez Community College: Associate of Applied Science: Electrical Construction

Post-Secondary Course Name	Post-Secondary Course Code	Dedicated Secondary Course Name	Dedicated Secondary Course Code
English Composition	ENGL 1010	English III: DE - CENL 1013 English Composition I	120601
College Algebra	MATH 1300	Algebra III: DE - CMAT 1213 College Algebra	160500
Physical Science	PHSC 1000	Physical Science: DE - CPHY 1023 Physical Science I	150915
Introduction to Construction	CNST 1000		
NCCER Electrical Construction I	ELEC 1000		
NCCER Instrument Level I	INST 1010		
NCCER Electrical Construction II	ELEC 1010		
NCCER Instrument Level II	INST 1020		
NCCER Electrical Level III	ELEC 2000		
Humanities Elective	TBD by Course Selected		
Social Science Elective	TBD by Course Selected		
NCCER Electrical Level IV	ELEC 2010		

Secondary Courses - Grades 9-10

Completing the post-secondary sequence of courses will provide the student with most graduation requirements. The below set of courses would need to be completed on the high school campus.

TOPS University	
Core Academic Requirements	LDOE Course Code
English I	120331
English II	120332
English III	120333
Algebra I	160321
Algebra II	160322
Geometry	160323
Financial Literacy	160345
Biology	150301
Civics	220501/220504
U.S. History	220403
Physical Education I	190105
½ Physical Education II	190106
½ Health Education	190500
Art	TBD by course selected
Foreign Language I	TBD by course selected
Foreign Language II	TBD by course selected

Jump Start	
Core Academic Requirements	LDOE Course Code
English I	120331
English II	120332
Algebra I	160321
Financial Literacy	160345
Geometry	160323
Biology	150301
Civics	220501/220504
Physical Education I	190105
½ Physical Education II	190106
½ Health Education	190500

Capstone Credentials

In order to graduate, Jump Start students must earn at least one credential from the options below.

Emerging	Basic	Advanced	Fast Forward
Career and Technical Certificate (LCTCS)	Certificate of Technical Studies (LCTCS)	Technical Diploma (LCTCS)	Associate of Applied Science (LCTCS)
NCCER Core	NCCER Electrical Level I	NCCER Electrical II	
	NCCER Instrumentation Level I	NCCER Instrumentation Level II	

High School Transcript

The below courses should be used for college courses without a dedicated secondary course code.

Secondary Course Name	Secondary Course Code	Maximum Carnegie Units
Fast Forward Electrical 1	890800	4
Fast Forward Electrical 2	890801	4
Fast Forward Electrical 3	890802	4
Fast Forward Electrical 4	890803	4
Fast Forward Electrical 5	890804	4
Fast Forward Electrical 6	890805	4
Fast Forward Electrical 7	890806	4
Fast Forward Electrical 8	890807	4