Regional Pathway	 The Welder's Helper graduation pathway is a Regional pathway. Students must: 1) pass 9 Carnegie credits of courses from this pathway; 2) including at least one Career Readiness course (one Carnegie credit); 3) attain NCCER Core; 4) attained the specified credentials within NCCER Level 1 or AWS certification; and 5) two Complementary credentials.
High-Demand	Helper positions in the Manufacturing trades: Tack Welder, T-Joint Welder, Grinder Assistant, Rod Indentifier/Runner, Maintenance Assistant
Careers Related	5 Star: Welders, Cutters, Solderers, Brazers, Plumbers, Pipefitters, Steamfitters, Industrial Machine Mechanics
to this Pathway	4 Star: Boilermakers, Maintenance and Repair Workers, Sheet Metal Workers, Structural Metal Fabricators and Fitters
	2 Star: Construction Laborers

Starting Salary Ranges for this Pathway

\$26,000 - \$38,000

	Welder's Helper Graduation Pathway: Sections				
		This section lists the course titles and codes for courses specific to this pathway			
1	Pathway-Specific Courses	Each table also indicates those courses that qualify for the basic 6% CTE adder (<i>course codes beginning with</i> "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses) as well as those courses that qualify for the additional 6% Career Development Fund (or CDF) payment.			
2	Universal Jump Start Courses	This section lists the course titles and course codes for courses that are part of every Jump Start graduation pathway			
3	Career Readiness Courses	This section lists the course titles and codes for courses that qualify as Career Readiness Courses. Students must pass at least one Carnegie credit of Career Readiness courses, but may apply more than one Career Readiness course to their 9 credit Jump Start graduation requirement.			
4	Internships	This section indicates the three types of internships and the appropriate course codes.			
5	Culminating Credentials	This section indicates the required culminating credential(s) for this pathway.			

Pathway

6	Sample Schedule	This section provides a sample schedule for students pursuing this graduation pathway. will develop its own standard schedules for Jump Start students.	Each high school
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Jump Start Graduation Pathway Revision Policy

Jump Start graduation pathways are continuously updated. Please use the most updated graduation pathways.

Future changes to Jump Start graduation pathways will always increase student opportunities. No one will ever need to compare an old pathway with an updated pathway.

Please send any recommended graduation pathway changes to <u>JumpStart@la.gov</u> using the subject line: *Recommended Graduation Pathway Change*.

The Department reserves the right to make administrative updates to Jump Start graduation pathways, including but not limited to updating course codes, correcting errors on course codes, correcting spelling errors and other similar changes.

The Department reserves the right to delete courses no longer meeting state standards. When this occurs, the Department may add a section to the graduation pathway indicating: "Courses Deleted from this Graduation Pathway."

The Department reserves the right to make changes on credentialing requirements based on guidance provided by the Jump Start Graduation Pathways Review Panel. (Please see the *All Things Jump Start* web portal for information about this Panel.) The Department will also maintain contact with certifying agencies and the Workforce Investment Council (WIC) to update the Statewide, Core and Complementary credentials indicated in each graduation pathway.

Louisiana educators can seek assistance with Jump Start graduation pathways at any time by emailing their questions to <u>JumpStart@la.gov</u>

Help Resources

Please see the updated *All Things Jump Start* web portal: <u>http://www.louisianabelieves.com/courses/all-things-jump-start</u>/ The updated portal provides easier access to:

- updated Jump Start graduation pathways;
- updated industry credential fact sheets that provide comprehensive details on over 100 Jump Start industry credentials;
- guidance on how your school can implement workplace internships and virtual workplace experiences; and much, much more.

Pathway-Specific Courses: Welder's Helper					
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%	
AGRISCIENCE I	010301	1	~		
AGRISCIENCE II	010302	1	~		
AGRISCIENCE III	010303	1	~	~	
AGRISCIENCE IV	010304	1	~		
COOPERATIVE AGRISCIENCE EDUCATION I (3 CREDITS)	010323	3	~		
COOPERATIVE AGRISCIENCE EDUCATION II (3 CREDITS)	010325	3	~		
Career Readiness Agriscience Agribusiness Natural Resources	010331	1	~		
AGRISCIENCE-CONSTRUCTION (1/2 CREDIT)	010344	1/2	~		
AGRISCIENCE-LEADERSHIP DEVELOPMENT (1/2 CREDIT)	010354	1/2	~		
AG LEADERSHIP (1 CREDIT)	010364	1	~		
AG CONST. TECH (1 CREDIT)	010444	1	~		
AG POWER EQUIPMENT (1 CREDIT)	010446	1	~		
NCCER CARPENTRY IN AGRISCIENCE (1 CREDIT)	010601	1	~	~	
NCCER CARPENTRY IN AGRISCIENCE (2 CREDITS)	010602	2	~	~	
NCCER CARPENTRY IN AGRISCIENCE (3 CREDITS)	010603	3	~	~	
NCCER Carpentry in Agriscience II (1 credit)	010604	1	~	~	

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010605	2	~	~
010606	3	~	~
010607	1	~	~
010608	2	~	~
010609	3	~	~
010610	1	~	~
010611	2	~	~
010612	3	~	~
010701	1	~	~
010702	2	~	~
010703	3	~	~
010704	1	~	~
010705	2	~	~
010706	3	~	~
010707	1	~	~
010708	2	~	~
010709	3	~	✓
010710	1	~	~
	010606 010607 010608 010609 010610 010611 010612 010701 010702 010703 010704 010705 010706 010708 010709	010606 3 010607 1 010608 2 010609 3 010610 1 010611 2 010612 3 010701 1 010702 2 010703 3 010704 1 010705 2 010706 3 010707 1 010708 2 010709 3	010606 3 × 010607 1 × 010608 2 × 010609 3 × 010610 1 × 010611 2 × 010612 3 × 010612 3 × 010701 1 × 010702 2 × 010703 3 × 010704 1 × 010705 2 × 010706 3 × 010707 1 × 010708 2 × 010709 3 ×

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010711	2	~	~
010712	3	~	~
010801	1	~	~
010802	2	~	~
010803	3	~	~
010804	1	~	~
010805	2	~	~
010806	3	~	~
010807	1	~	~
010808	2	~	~
010809	3	~	~
010810	1	~	~
010811	2	~	~
010812	3	~	~
010901	1	~	~
010902	2	~	~
010903	3	~	~
010904	1	~	~
	010712 010801 010802 010803 010803 010804 010805 010806 010807 010808 010808 010808 010810 010810 010812 010901 010903	010712 3 010801 1 010802 2 010803 3 010804 1 010805 2 010806 3 010807 1 010808 2 010809 3 010810 1 010811 2 010901 1 010902 2 010903 3	010712 3 ✓ 010801 1 ✓ 010802 2 ✓ 010803 3 ✓ 010804 1 ✓ 010805 2 ✓ 010806 3 ✓ 010806 3 ✓ 010807 1 ✓ 010808 2 ✓ 010809 3 ✓ 010810 1 ✓ 010811 2 ✓ 010901 1 ✓ 010902 2 ✓ 010903 3 ✓

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Introduction to Fabrication, P-Tech, and Machining C4M in Agriscience (1 Credit)	010922	1	~	~
Automation in Manufacturing C4M in Agriscience (3 Credits)	010921	3	~	~
Automation in Manufacturing C4M in Agriscience (2 Credits)	010920	2	~	~
Automation in Manufacturing C4M in Agriscience (1 Credit)	010919	1	~	~
Manufacturing Tools and Equipment C4M in Agriscience (3 Credits)	010918	3	~	~
Manufacturing Tools and Equipment C4M in Agriscience (2 Credits)	010917	2	~	~
Manufacturing Tools and Equipment C4M in Agriscience (1 Credit)	010916	1	~	~
Introduction to Manufacturing C4M in Agriscience I (3 Credits)	010915	3	~	~
Introduction to Manufacturing C4M in Agriscience I (2 Credits)	010914	2	~	~
Introduction to Manufacturing C4M in Agriscience I (1 Credit)	010913	1	~	~
NCCER Welding in Agriscience IV (3 credits)	010912	3	~	~
NCCER Welding in Agriscience IV (2 credits)	010911	2	~	~
NCCER Welding in Agriscience IV (1 credit)	010910	1	~	~
NCCER Welding in Agriscience III (3 credits)	010909	3	~	~
NCCER Welding in Agriscience III (2 credits)	010908	2	~	~
NCCER Welding in Agriscience III (1 credit)	010907	1	~	~
NCCER Welding in Agriscience II (3 credits)	010906	3	~	~
NCCER Welding in Agriscience II (2 credits)	010905	2	~	~

Pathway	Wel	der's Helper			
		I	Г Г		1
Introduction to Credits)	Fabrication, P-Tech, and Machining C4M in Agriscience (2	010923	2	~	~
Introduction to Credits)	Fabrication, P-Tech, and Machining C4M in Agriscience (3	010924	3	~	~
Fundamentals	of Machining C4Machining in Agriscience (1 Credit)	010925	1	~	~
Fundamentals	of Machining C4Machining in Agriscience (2 Credits)	010926	2	~	~
Fundamentals	of Machining C4Machining in Agriscience (3 Credits)	010927	3	~	~
Machining Too	ls and Equipment C4Machining in Agriscience (1 Credit)	010928	1	~	~
Machining Too	ls and Equipment C4Machining in Agriscience (2 Credits)	010929	2	~	~
Machining Too	ls and Equipment C4Machining in Agriscience (3 Credits)	010930	3	~	~
Manual Machir	ning C4Machining in Agriscience (1 Credit)	010931	1	~	~
Manual Machir	ning C4Machining in Agriscience (2 Credits)	010932	2	~	~
Manual Machir	ning C4Machining in Agriscience (3 Credits)	010933	3	~	~
Computerized Agriscience (1 d	Numerical Control (CNC) Machining C4Machining in cr)	010934	1	~	~
Computerized Agriscience (2 d	Numerical Control (CNC) Machining C4Machining in cr)	010935	2	~	~
Computerized Agriscience (3 o	Numerical Control (CNC) Machining C4Machining in cr)	010936	3	~	~
THEATRE DESIG	GN AND TECHNOLOGY	030702	1		
ACCOUNTING I		040101	1	•	~
ACCOUNTING I	I	040104	1	~	~
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ENTREPRENEURSHIP (BUSINESS)	040110	1	~	
WORD PROCESSING	040203	1	~	
COOPERATIVE OFFICE EDUCATION (3 CREDITS)	040205	3	~	
COMPUTER TECHNOLOGY LITERACY	040220	1	~	
KEYBOARDING (1/2 CREDIT)	040225	1/2	~	
KEYBOARDING APPLICATIONS (1/2 CREDIT)	040226	1/2	~	
Keyboarding	040229	1	~	
BUSINESS LAW	040303	1	~	
BUSINESS COMMUNICATIONS	040305	1	~	
PRINCIPLES OF BUSINESS	040306	1	~	
Business Math	040307	1	~	
BUSINESS COMPUTER APPLICATIONS	040400	1	~	
INTRODUCTION TO BUSINESS COMPUTER APPLICATIONS	040401	1	~	
CUSTOMER SERVICE (1 CREDIT)	041001	1	~	
COOPERATIVE MARKETING EDUCATION I (3 CREDITS)	041010	3	~	
COOPERATIVE MARKETING EDUCATION II (3 CREDITS)	041011	3	~	
PERSONAL FINANCE	041022	1	~	
PRINCIPLES OF MARKETING I	041025	1	~	

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PRINCIPLES OF MARKETING II	041026	1	~	
ENTREPRENEURSHIP (MARKETING)	041040	1	~	
ENTREPRENEURSHIP II - Advanced Micro-Enterprise Credentials	041041	1	~	~
JOBS FOR AMERICA'S GRADUATES 1	042010	1	~	~
JOBS FOR AMERICA'S GRADUATES 2	042020	1	~	~
JOBS FOR AMERICA'S GRADUATES 3	042030	1	~	~
JOBS FOR AMERICA'S GRADUATES 4	042040	1	~	~
SPEECH I	051101	1		
SPEECH II	051102	1		
ENGINEERING DESIGN I (1 CREDIT)	080110	1	~	
Engineering Design I (2 Credits)	080111	2	~	
Engineering Design I (3 Credits)	080112	3	~	
ENGINEERING DESIGN II (1 CREDIT)	080120	1	~	
Engineering Design II (2 Credits)	080121	2	~	
Engineering Design II (3 Credits)	080122	3	~	
CDF-Qualifying CTE Internship I (2 CREDITS)	080200	2	~	V
CDF-Qualifying CTE Internship II (2 CREDITS)	080201	2	~	V
CDF-Qualifying CTE Internship I (1 CREDIT)	080202	1	~	V

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CDF-Qualifying CTE Internship II (1 CREDIT)	080203	1	~	~
Virtual Workplace Experience I (1/2 credit)	080204	1/2	~	
Virtual Workplace Experience I (1 credit)	080205	1	~	
Virtual Workplace Experience II (1/2 credit)	080206	1/2	~	
Virtual Workplace Experience II (1 credit)	080207	1	~	
Pre-Apprenticeship I (2 Credits)	080208	2	~	
Pre-Apprenticeship II (2 Credits)	080209	2	~	
Pre-Apprenticeship I (1 Credit)	080210	1	~	
Pre-Apprenticeship II (1 Credit)	080211	1	~	
Authentic Workplace Experience I (1 Credit)	080212	1	~	
CDF-QUALIFYING PRE-APPRENTICESHIP I (1 CREDIT)	080230	1	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP I (2 CREDITS)	080231	2	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP II (1 CREDIT)	080233	1	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP II (2 CREDITS)	080234	2	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP III (1 CREDIT)	080236	1	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP III (2 CREDITS)	080237	2	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP IV (1 CREDIT)	080239	1	~	~
CDF-QUALIFYING PRE-APPRENTICESHIP IV (2 CREDITS)	080240	2	~	~

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GENERAL COOPERATIVE EDUCATION I (3 CREDITS)	080300	3	~	
GENERAL COOPERATIVE EDUCATION II (3 CREDITS)	080301	3	~	
EDUCATION FOR CAREERS (1/2 CREDIT)	080400	1/2	~	
EDUCATION FOR CAREERS (1CREDIT)	080401	1	~	
JOURNEY TO CAREERS PART I (1/2 CREDIT)	080402	1/2	~	
JOURNEY TO CAREERS (1 CREDIT)	080403	1	~	
JOURNEY TO CAREERS PART II (1/2 CREDIT)	080404	1/2	~	
EDUCATION FOR CAREERS PART I (1/2 CREDIT)	080405	1/2	~	
EDUCATION FOR CAREERS PART II (1/2 CREDIT)	080406	1/2	~	
Career Success Skills	080407	1	~	
Basic/Initial Career Readiness	080409	1	~	
Advanced Career Readiness	080410	1	~	
ETHICS IN BUSINESS (1/2 CREDIT)	080640	1/2	~	
INSURANCE (1/2 CREDIT)	080650	1/2	~	
BUSINESS IN A GLOBAL ECONOMY (1/2 CREDIT)	080660	1/2	~	
PRINCIPLES OF FINANCE (1/2 CREDIT)	080670	1/2	~	
(NAF) ENTREPRENEURSHIP (1/2 CREDIT)	080685	1/2	~	
MANAGERIAL ACCOUNTING (1/2 CREDIT)	080691	1/2	~	

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080720	1/2	~	
080900	1	~	
080901	1	~	
080902	1	~	
080903	1	1	
090004	3	1	
090710	1/2	~	
090711	1	~	
090712	2	~	
100800	3	~	
110005	1	~	
110010	1	>	
110020	1	~	
110098	3	~	
110100	1	~	
110110	1	~	~
110120	1	~	
110200	1	~	
	080901 080902 080903 090004 090710 090711 090712 100800 110005 110010 110020 110020 110098 110098 110100 110110 110120	080900 1 080901 1 080902 1 080903 1 080904 3 090004 3 090710 1/2 090711 1 090712 2 100800 3 110010 1 110010 1 110020 1 110010 1 110010 1 110010 1 110010 1 110010 1 110100 1 110110 1 110120 1	080900 1 \checkmark 080901 1 \checkmark 080902 1 \checkmark 080903 1 \checkmark 080903 1 \checkmark 090004 3 \checkmark 09001 $1/2$ \checkmark 090710 $1/2$ \checkmark 090711 1 \checkmark 090712 2 \checkmark 100800 3 \checkmark 110005 1 \checkmark 110005 1 \checkmark 110000 1 \checkmark 110098 3 \checkmark 110100 1 \checkmark 110110 1 \checkmark 110120 1 \checkmark

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WELDING TECHNOLOGY	110230	1	~	
Grinder Assistant	110231	1	~	
Rod Identifier/Runner	110232	1	~	
ADVANCED METAL TECHNOLOGY	110240	1	~	
MANUFACTURING TECHNOLOGY	110250	1	~	
INTRODUCTION TO MANUFACTURING C4M	110256	1	~	~
MANUFACTURING TOOLS AND EQUIPMENT C4M (1 CREDIT)	110257	1	~	~
AUTOMATION IN MANUFACTURING C4M (1 CREDIT)	110258	1	~	~
INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (1 CREDIT)	110259	1	~	v
INTRODUCTION TO MANUFACTURING C4M (2 CREDITS)	110260	2	~	~
INTRODUCTION TO MANUFACTURING C4M (3 CREDITS)	110261	3	~	~
MANUFACTURING TOOLS AND EQUIPMENT C4M (2 CREDITS)	110262	2	~	~
MANUFACTURING TOOLS AND EQUIPMENT C4M (3 CREDITS)	110263	3	~	~
AUTOMATION IN MANUFACTURING C4M (2 CREDITS)	110264	2	~	~
AUTOMATION IN MANUFACTURING C4M (3 CREDITS)	110265	3	~	~
INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (2 CREDITS)	110266	2	~	~
INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (3 CREDITS)	110267	3	~	~

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FUNDAMENTALS OF MACHINING C4MACHINING (1 CREDIT)	110268	1	~	~
FUNDAMENTALS OF MACHINING C4MACHINING (2 CREDITS)	110269	2	~	~
FUNDAMENTALS OF MACHINING C4MACHINING (3 CREDITS)	110270	3	~	~
MACHINING TOOLS AND EQUIPMENT C4MACHINING (1 CREDIT)	110271	1	~	~
MACHINING TOOLS AND EQUIPMENT C4MACHINING (2 CREDITS)	110272	2	~	~
MACHINING TOOLS AND EQUIPMENT C4MACHINING (3 CREDITS)	110273	3	~	~
MANUAL MACHINING C4MACHINING (1 CREDIT)	110274	1	~	~
MANUAL MACHINING C4MACHINING (2 CREDITS)	110275	2	~	~
MANUAL MACHINING C4MACHINING (3 CREDITS)	110276	3	~	~
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING (1 CR)	110277	1	~	~
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING (2 CR)	110278	2	~	~
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING (3 CR)	110279	3	~	~
TECHNOLOGY EDUCATION ELECTIVE II (1/2 CREDIT)	110299	1/2	~	
ENERGY, POWER AND TRANSPORTATION TECHNOLOGY	110310	1	~	
POWER MECHANICS	110330	1	~	
Fluid Mechanics	110331	1	~	
TECHNOLOGY EDUCATION ELECTIVE II (1 CREDIT)	110399	1	~	

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TECHNOLOGY EDUCATION ELECTIVE II (2 CREDITS)	110400	2	~	
TECHNOLOGY EDUCATION ELECTIVE II (3 CREDITS)	110401	3	~	
CTE Internship I (1 credit; Non-CDF)	110402	1	~	
CTE Internship I (2 credits; Non-CDF)	110403	2	~	
CTE Internship II (1 credit; Non-CDF)	110404	1	~	
CTE Internship II (2 credits; Non-CDF)	110405	2	~	
COMMUNICATION TECHNOLOGY	110540	1	~	
BASIC TECHNICAL DRAFTING	110560	1	~	
CMAD Drafting	110570	1	~	~
CMAD Drafting (2 credit)	110571	2	~	~
CMAD Drafting (3 credit)	110572	3	~	~
ARCHITECTURAL DRAFTING	110580	1	~	
ADVANCED TECHNICAL DRAFTING	110590	1	~	
BASIC ELECTRICITY/ELECTRONICS	110600	1	~	
ADVANCED ELECTRICITY/ELECTRONICS	110610	1	~	
NCCER Carpentry III (1 credit)	110700	1	~	~
NCCER CARPENTRY I (1 CREDIT)	110701	1	~	~
NCCER CARPENTRY I (2 CREDITS)	110702	2	~	~

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	110703	3	~	~
NCCER CARPENTRY I (3 CREDITS)	110703	5	•	V
NCCER Carpentry III (2 credits)	110704	2	~	~
NCCER Carpentry III (3 credits)	110705	3	~	~
NCCER CARPENTRY II (1 CREDIT)	110706	1	~	~
NCCER CARPENTRY II (2 CREDITS)	110707	2	~	~
NCCER CARPENTRY II (3 CREDITS)	110708	3	~	~
NCCER Carpentry IV (1 credit)	110709	1	~	~
NCCER Carpentry IV (2 credits)	110710	2	~	~
NCCER ELECTRICAL I (1 CREDIT)	110711	1	~	~
NCCER ELECTRICAL I (2 CREDITS)	110712	2	~	~
NCCER ELECTRICAL I (3 CREDITS)	110713	3	~	~
NCCER Carpentry IV (3 credits)	110714	3	~	~
NCCER ELECTRICAL II (1 CREDIT)	110716	1	~	~
NCCER ELECTRICAL II (2 CREDITS)	110717	2	~	~
NCCER ELECTRICAL II (3 CREDITS)	110718	3	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (1 CREDIT)	110721	1	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (2 CREDITS)	110722	2	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (3 CREDITS)	110723	3	~	~

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NCCER INSTRUMENTATION CONTROL MECHANIC II (1 CREDIT)	110726	1	1	~
NCCER INSTRUMENTATION CONTROL MECHANIC II (2 CREDITS)	110727	2	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC II (3 CREDITS)	110728	3	~	~
NCCER PIPEFITTER I (1 CREDIT)	110731	1	~	~
NCCER PIPEFITTER I (2 CREDITS)	110732	2	~	~
NCCER PIPEFITTER I (3 CREDITS)	110733	3	~	~
NCCER PIPEFITTER II (1 CREDIT)	110736	1	~	~
NCCER PIPEFITTER II (2 CREDITS)	110737	2	~	~
NCCER PIPEFITTER II (3 CREDITS)	110738	3	~	~
NCCER WELDING TECHNOLOGY I (1 CREDIT)	110741	1	~	~
NCCER WELDING TECHNOLOGY I (2 CREDITS)	110742	2	~	~
NCCER WELDING TECHNOLOGY I (3 CREDITS)	110743	3	~	~
NCCER WELDING TECHNOLOGY II (1 CREDIT)	110746	1	~	~
NCCER WELDING TECHNOLOGY II (2 CREDITS)	110747	2	~	~
NCCER WELDING TECHNOLOGY II (3 CREDITS)	110748	3	~	~
INTRODUCTION TO ENGINEERING DESIGN I (1/2 CREDIT)	110799	1/2	~	
INTRODUCTION TO ENGINEERING DESIGN (1 CREDIT)	110800	1	~	
PRINCIPLES OF ENGINEERING (1 CREDIT)	110810	1	~	

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PRINCIPLES OF ENGINEERING (2 CREDITS)	110811	2	~	
DIGITAL ELECTRONICS (1 CREDIT)	110820	1	~	
AEROSPACE ENGINEERING (1 CREDIT)	110830	1	~	
CIVIL ENGINEERING & ARCHITECTURE (1 CREDIT)	110840	1	~	
COMPUTER INTEGRATED MANUFACTURING (1 CREDIT)	110850	1	~	
ENGINEERING DESIGN AND DEVELOPMENT (1 CREDIT)	110860	1	~	
PHYSICS OF TECHNOLOGY I (VOCATIONAL)	110900	1	~	
PHYSICS OF TECHNOLOGY II (VOCATIONAL)	110910	1	~	
PROCESS TECHNICIAN I (1 credit)	110911	1	~	~
PROCESS TECHNICIAN II (1 credit)	110912	1	~	~
Process Technician I (2 credits)	110913	2	~	2
Process Technician I (3 credits)	110914	3	~	~
Process Instrumentation I	110915	1	~	
Process Instrumentation II	110916	1	~	
Process Technician II (2 credits)	110917	2	~	~
Process Technician II (3 credits)	110918	3	~	~
Process Technician III (1 credit)	110919	1	~	~
Process Technician III (2 credits)	110920	2	~	~

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Process Technician III (3 credits)	110921	3	~	✓
Process Technology I: Equipment	110922	1	~	
Process Technology II: Unit Systems	110923	1	~	
Process Technology III: Operations	110924	1	~	
OIL AND GAS PRODUCTION OPERATIONS (1 CREDIT)	110955	1	~	~
T2 SAFETY SYSTEMS FOR OIL AND GAS PRODUCTION (1 CREDIT)	110956	1	~	~
OIL PATCH PREPARATION SYSTEM	110957	1	~	~
TECHNICAL WRITING	120350	1		
AMERICAN SIGN LANGUAGE I	123456	1		
AMERICAN SIGN LANGUAGE II	123457	1		
TECHNICAL READING and WRITING	125010	1		
BUSINESS COMMUNICATIONS	125030	1		
ENVIRONMENTAL SCIENCE	150310	1		
CHEMISTRY	150401	1		
FIRST ROBOTICS I (1 CREDIT)	150740	1		
FIRST ROBOTICS II (1 CREDIT)	150750	1		
FIRST ROBOTICS III (1 CREDIT)	150760	1		
FIRST ROBOTICS IV (1 CREDIT)	150770	1		
GEOMETRY	160323	1		
FINANCIAL LITERACY (formerly Financial Math)	160345	1		
TECHNICAL MATH	165010	1		

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AUTO BODY REPAIR II (1 CREDIT)	310205	1	~	~
AUTO BODY REPAIR I (3 CREDITS)	310203	3	~	~
AUTO BODY REPAIR I (2 CREDITS)	310202	2	~	~
AUTO BODY REPAIR I (1 CREDIT)	310200	1	~	~
AIR CONDITIONING/REFRIGERATION IV (3 CREDITS)	310119	3	~	~
AIR CONDITIONING/REFRIGERATION IV (2 CREDITS)	310118	2	~	~
AIR CONDITIONING/REFRIGERATION IV (1 CREDIT)	310117	1	~	~
AIR CONDITIONING/REFRIGERATION III (3 CREDITS)	310116	3	~	~
AIR CONDITIONING/REFRIGERATION III (3 CREDITS)	310115	2	~	~
AIR CONDITIONING/REFRIGERATION III (1 CREDIT)	310114	1	~	~
AIR CONDITIONING/REFRIGERATION II (3 CREDITS)	310113	3	~	~
AIR CONDITIONING/REFRIGERATION II (2 CREDITS)	310112	2	~	~
AIR CONDITIONING/REFRIGERATION II (1 CREDIT)	310105	1	~	~
AIR CONDITIONING/REFRIGERATION I (3 CREDITS)	310103	3	~	~
AIR CONDITIONING/REFRIGERATION I (2 CREDITS)	310102	2	~	~
AIR CONDITIONING/REFRIGERATION I (1 CREDIT)	310100	1	~	~
LAW STUDIES	220506	1		
IR. ROTC IV	170004	1		

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AUTO BODY REPAIR II (2 CREDITS)	310212	2	~	~
AUTO BODY REPAIR II (3 CREDITS)	310213	3	~	~
Auto Body Repair III (1 credit)	310214	1	~	~
Auto Body Repair III (2 credits)	310215	2	~	✓
Auto Body Repair III (3 credits)	310216	3	~	✓
Auto Body Repair IV (1 credit)	310217	1	~	✓
Auto Body Repair IV (2 credits)	310218	2	~	✓
Auto Body Repair IV (3 credits)	310219	3	~	✓
AUTOMOTIVE TECHNICIAN I (1 CREDIT)	310300	1	~	✓
GENERAL AUTOMOTIVE MAINTENANCE (2 CREDITS)	310302	2	~	
GENERAL AUTOMOTIVE MAINTENANCE (3 CREDITS)	310303	3	~	
AUTOMOTIVE TECHNICIAN II (1 CREDIT)	310305	1	~	✓
AUTOMOTIVE TECHNICIAN III (1 CREDIT)	310306	1	~	~
AUTOMOTIVE TECHNICIAN IV (1 CREDIT)	310307	1	~	✓
AUTOMOTIVE TECHNICIAN V (1 CREDIT)	310308	1	~	~
AUTOMOTIVE TECHNICIAN VI (1 CREDIT)	310309	1	~	~
AUTOMOTIVE TECHNICIAN I (2 CREDITS)	310312	2	~	✓
AUTOMOTIVE TECHNICIAN I (3 CREDITS)	310313	3	~	✓

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GENERAL AUTOMOTIVE MAINTENANCE (1 CREDIT)	310315	1	~	
AUTOMOTIVE TECHNICIAN II (2 CREDITS)	310322	2	~	~
AUTOMOTIVE TECHNICIAN II (3 CREDITS)	310323	3	~	~
AUTOMOTIVE TECHNICIAN III (2 CREDITS)	310332	2	~	~
AUTOMOTIVE TECHNICIAN III (3 CREDITS)	310333	3	~	~
AUTOMOTIVE TECHNICIAN IV (2 CREDITS)	310342	2	~	~
AUTOMOTIVE TECHNICIAN IV (3 CREDITS)	310343	3	~	~
AUTOMOTIVE TECHNICIAN V (2 CREDITS)	310352	2	~	~
AUTOMOTIVE TECHNICIAN V (3 CREDITS)	310353	3	~	~
AUTOMOTIVE TECHNICIAN VI (2 CREDITS)	310362	2	~	~
AUTOMOTIVE TECHNICIAN VI (3 CREDITS)	310363	3	~	~
Introduction to Motor Vehicle Technology	310373	1	~	
Steering and Suspension Systems	310381	1	~	
Steering and Suspension Systems Laboratory	310382	1	~	
Advanced Electrical Electronics	310383	1	~	
Advanced Electrical and Electronics Laboratory	310384	1	~	
Engine Performance I: Components and Systems	310390	1	~	
Engine Performance I: Components and Systems Laboratory	310391	1	~	

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Engine Diagnosis and Repair	310392	1	~	
Engine Diagnosis and Repair Laboratory	310393	1	~	
Engine Performance II: Advanced Driveability	310394	1	~	
Engine Performance II Laboratory	310395	1	~	
BASIC ELECTRICITY I (1 CREDIT)	310400	1	~	
BASIC ELECTRICITY I (2 CREDITS)	310402	2	~	
BASIC ELECTRICITY I (3 CREDITS)	310403	3	~	
BASIC ELECTRICITY II (1 CREDIT)	310410	1	~	
BASIC ELECTRICITY II (2 CREDITS)	310412	2	~	
BASIC ELECTRICITY II (3 CREDITS)	310413	3	~	
CABINET MAKING I (1 CREDIT)	310500	1	~	
CABINET MAKING I (2 CREDITS)	310502	2	~	
CABINET MAKING I (3 CREDITS)	310503	3	~	
CABINET MAKING II (1 CREDIT)	310505	1	~	
CABINET MAKING II (2 CREDITS)	310512	2	~	
CABINET MAKING II (3 CREDITS)	310513	3	~	
CARPENTRY I (1 CREDIT)	310600	1	~	
CARPENTRY I (2 CREDITS)	310602	2	~	

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310603	3	~	
310605	1	~	
310612	2	~	
310613	3	~	
310620	1	~	
310621	1	~	
310622	1	~	
310623	1	~	
310624	1	~	
310625	1	~	
310626	1	~	
310627	1	~	
310628	1	~	
310630	1	~	
310631	1	~	
310632	2	~	
310800	1	~	
310802	2	~	
	310605 310612 310613 310620 310620 310621 310621 310623 310623 310624 310625 310626 310627 310628 310630 310631 310632 310800	310605 1 310612 2 310613 3 310620 1 310621 1 310622 1 310623 1 310624 1 310625 1 310626 1 310627 1 310628 1 310630 1 310631 1 310632 2 310631 1	310605 1 \checkmark 310612 2 \checkmark 310613 3 \checkmark 310613 3 \checkmark 310613 3 \checkmark 310620 1 \checkmark 310620 1 \checkmark 310621 1 \checkmark 310622 1 \checkmark 310623 1 \checkmark 310624 1 \checkmark 310625 1 \checkmark 310626 1 \checkmark 310626 1 \checkmark 310626 1 \checkmark 310627 1 \checkmark 310630 1 \checkmark 310631 1 \checkmark 310631 1 \checkmark 310632 2 \checkmark 310800 1 \checkmark

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310803	3	~	
310805	1	~	
310812	2	~	
310813	3	~	
310818	1	~	
310819	1	~	
310820	2	~	
310821	3	~	
310822	2	~	
310823	3	~	
310850	2	~	
310851	3	~	
310852	2	~	
310853	3	~	
311200	1	~	
311202	2	~	
311203	3	~	
311205	1	~	
	310805 310812 310813 310813 310813 310813 310818 310819 310820 310821 310821 310823 310850 310851 310852 310853 311200 311203	310805 1 310812 2 310813 3 310813 3 310813 1 310818 1 310819 1 310820 2 310821 3 310822 2 310823 3 310850 2 310851 3 310852 2 310853 3 311200 1 311203 3	310805 1 \checkmark 310812 2 \checkmark 310813 3 \checkmark 310813 3 \checkmark 310813 1 \checkmark 310813 1 \checkmark 310818 1 \checkmark 310819 1 \checkmark 310820 2 \checkmark 310820 2 \checkmark 310821 3 \checkmark 310822 2 \checkmark 310823 3 \checkmark 310850 2 \checkmark 310851 3 \checkmark 310852 2 \checkmark 310853 3 \checkmark 311200 1 \checkmark 311203 3 \checkmark

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	311212	2	~	
DIESEL MECHANICS II (2 CREDITS)	511212	۷	V	
DIESEL MECHANICS II (3 CREDITS)	311213	3	~	
DRAFTING & DESIGN TECHNOLOGY I (1 CREDIT)	311300	1	~	
DRAFTING & DESIGN TECHNOLOGY I (2 CREDITS)	311302	2	~	
DRAFTING & DESIGN TECHNOLOGY I (3 CREDITS)	311303	3	~	
DRAFTING & DESIGN TECHNOLOGY II (1 CREDIT)	311305	1	~	
DRAFTING & DESIGN TECHNOLOGY II (2 CREDITS)	311312	2	~	
DRAFTING & DESIGN TECHNOLOGY II (3 CREDITS)	311313	3	~	
ELECTRICIAN I (1 CREDIT)	311400	1	~	
ELECTRICIAN I (2 CREDITS)	311402	2	~	
ELECTRICIAN I (3 CREDITS)	311403	3	~	
ELECTRICIAN II (1 CREDIT)	311405	1	~	
ELECTRICIAN II (2 CREDITS)	311412	2	~	
ELECTRICIAN II (3 CREDITS)	311413	3	~	
ELECTRONICS I (1 CREDIT)	311500	1	~	
ELECTRONICS I (2 CREDITS)	311502	2	~	
ELECTRONICS I (3 CREDITS)	311503	3	~	
ELECTRONICS II (1 CREDIT)	311505	1	~	

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ELECTRONICS II (2 CREDITS)	311512	2	~	
ELECTRONICS II (3 CREDITS)	311513	3	~	
NCCER Core	311720	1	~	~
INDUSTRIAL ELECTRONICS I (1 CREDIT)	311800	1	~	
INDUSTRIAL ELECTRONICS I (2 CREDITS)	311802	2	~	
INDUSTRIAL ELECTRONICS I (3 CREDITS)	311803	3	~	
INDUSTRIAL ELECTRONICS II (1 CREDIT)	311805	1	~	
INDUSTRIAL ELECTRONICS II (2 CREDITS)	311812	2	~	
INDUSTRIAL ELECTRONICS II (3 CREDITS)	311813	3	~	
INDUSTRIAL MACHINES SHOP I (1 CREDIT)	311900	1	~	~
INDUSTRIAL MACHINES SHOP I (2 CREDITS)	311902	2	~	~
INDUSTRIAL MACHINES SHOP I (3 CREDITS)	311903	3	~	~
INDUSTRIAL MACHINES SHOP II (1 CREDIT)	311905	1	~	~
INDUSTRIAL MACHINES SHOP II (2 CREDITS)	311912	2	~	~
INDUSTRIAL MACHINES SHOP II (3 CREDITS)	311913	3	~	~
GO SAFE	311914	1	✓	
Industrial Machines Shop III (1 credit)	311915	1	~	v
Industrial Machines Shop III (2 credits)	311916	2	~	v

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Industrial Machines Shop III (3 credits)	311917	3	~	~
Industrial Machines Shop IV (1 credit)	311918	1	~	~
Industrial Machines Shop IV (2 credits)	311919	2	~	~
Industrial Machines Shop IV (3 credits)	311920	3	~	~
Industrial and Plant Safety	311921	1	~	
Introduction to Hazardous Materials	311922	1	~	
Workplace Safety (1 Credit)	311923	1	~	
Workplace Safety (2 Credit)	311924	2	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN I (1 CREDIT)	312300	1	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN I (2 CREDITS)	312302	2	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN I (3 CREDITS)	312303	3	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN II (1 CREDIT)	312305	1	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN II (2 CREDITS)	312312	2	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN II (3 CREDITS)	312313	3	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN III (1 CREDIT)	312320	1	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN III (2 CREDITS)	312321	2	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN III (3 CREDITS)	312322	3	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN IV (1 CREDIT)	312330	1	~	

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OUTDOOR POWER EQUIPMENT TECHNICIAN IV (2 CREDITS)	312331	2	~	
OUTDOOR POWER EQUIPMENT TECHNICIAN IV (3 CREDITS)	312332	3	~	
NCCER PLUMBING I (1 credit)	312500	1	~	~
NCCER PLUMBING I (2 credits)	312502	2	~	~
NCCER PLUMBING I (3 credits)	312503	3	~	~
NCCER PLUMBING II (1 credit)	312505	1	~	~
NCCER PLUMBING II (2 credits)	312512	2	~	~
NCCER PLUMBING II (3 credits)	312513	3	~	~
SHEET METAL I (1 CREDIT)	312700	1	~	
SHEET METAL I (2 CREDITS)	312702	2	~	
SHEET METAL I (3 CREDITS)	312703	3	~	
SHEET METAL II (1 CREDIT)	312705	1	~	
SHEET METAL II (2 CREDITS)	312712	2	~	
SHEET METAL II (3 CREDITS)	312713	3	~	
AWS WELDING I (1 credit)	313100	1	~	~
AWS WELDING I (2 credits)	313102	2	~	~
AWS WELDING I (3 credits)	313103	3	~	~
AWS WELDING II (1 credit)	313105	1	~	~

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AWS WELDING II (2 credits)	313106	2	~	~
AWS WELDING II (3 credits)	313107	3	~	~
AWS Welding III (1 credit)	313108	1	~	~
AWS Welding III (2 credits)	313109	2	~	~
AWS Welding III (3 credits)	313110	3	~	~
AWS Welding IV (1 credit)	313111	1	~	~
AWS Welding IV (2 credits)	313112	2	~	~
AWS Welding IV (3 credits)	313113	3	~	~
AWS WELDING I PART I (2 CREDITS)	313114	2	~	~
AWS WELDING I PART II (2 CREDITS)	313115	2	~	~
AWS WELDING II PART I (2 CREDITS)	313116	2	~	~
AWS WELDING II PART II (2 CREDITS)	313117	2	~	~
Basic SMAW	313120	1	~	
SMAW Groove Welds	313121	1	~	
SMAW Pipe 2G	313122	1	~	
SMAW Pipe 5G	313123	1	~	
SMAW Pipe 6G	313124	1	~	
G.M. TECHNICIAN I (1 CREDIT)	313200	1	~	

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313202	2	~	
313203	3	~	
313205	1	~	
313212	2	~	
313213	3	~	
313300	1	~	~
313302	2	~	~
313303	3	~	~
313305	1	~	~
313312	2	~	~
313313	3	•	~
313317	3	~	~
313400	1	~	~
313402	2	~	~
313403	3	~	~
313405	1	v	~
313412	2	v	~
313413	3	~	~
	313203 313205 313212 313213 313213 313300 313302 313303 313305 313312 313313 313317 313400 313402 313403 313405 313412	313203 3 313205 1 313212 2 313213 3 313213 3 313213 3 313300 1 313302 2 313303 3 313305 1 313305 1 313312 2 313313 3 313317 3 313400 1 313402 2 313403 3 313405 1 313412 2	313203 3 ✓ 313205 1 ✓ 313212 2 ✓ 313213 3 ✓ 313213 3 ✓ 313205 1 ✓ 313213 3 ✓ 313203 1 ✓ 313300 1 ✓ 313302 2 ✓ 313303 3 ✓ 313305 1 ✓ 313312 2 ✓ 313313 3 ✓ 313317 3 ✓ 313400 1 ✓ 313402 2 ✓ 313403 3 ✓ 313405 1 ✓ 313405 1 ✓ 313412 2 ✓

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NCCER Electrical III (1 Credit)	313417	1	~	v
NCCER Electrical III (2 Credits)	313418	2	~	~
NCCER Electrical III (3 Credits)	313419	3	~	~
NCCER Electrical IV (1 Credit)	313420	1	~	~
NCCER Electrical IV (2 Credits)	313421	2	~	~
NCCER Electrical IV (3 Credits)	313422	3	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (1 CREDIT)	313500	1	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (2 CREDITS)	313502	2	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC I (3 CREDITS)	313503	3	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC II (1 CREDIT)	313505	1	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC II (2 CREDITS)	313512	2	~	~
NCCER INSTRUMENTATION CONTROL MECHANIC II (3 CREDITS)	313513	3	~	~
NCCER Instrumentation Control Mechanic III	313517	1	~	~
NCCER Instrumentation IV	313520	1	~	~
NCCER PIPEFITTER I (1 CREDIT)	313600	1	~	~
NCCER PIPEFITTER I (2 CREDITS)	313602	2	~	✓
NCCER PIPEFITTER I (3 CREDITS)	313603	3	~	v
NCCER PIPEFITTER II (1 CREDIT)	313605	1	~	v

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313606	1	~	~
313612	2	~	~
313613	3	~	~
313616	2	~	~
313617	1	~	~
313619	2	~	~
313620	1	~	~
313621	1	~	~
313622	2	~	>
313623	3	~	~
313624	1	~	~
313625	2	~	~
313626	3	~	~
313700	1	~	~
313702	2	~	~
313703	3	~	~
313705	1	~	~
313712	2	~	~
	313612 313613 313613 313616 313617 313617 313619 313620 313621 313621 313623 313623 313624 313625 313626 313700 313702 313703 313705	313612 2 313613 3 313616 2 313617 1 313619 2 313620 1 313621 1 313622 2 313623 3 313624 1 313625 2 313626 3 313700 1 313703 3 313705 1	313612 2 \checkmark 313613 3 \checkmark 313613 2 \checkmark 313616 2 \checkmark 313616 2 \checkmark 313617 1 \checkmark 313619 2 \checkmark 313620 1 \checkmark 313620 1 \checkmark 313621 1 \checkmark 313622 2 \checkmark 313623 3 \checkmark 313624 1 \checkmark 313626 3 \checkmark 313626 3 \checkmark 313700 1 \checkmark 313702 2 \checkmark 313703 3 \checkmark 313705 1 \checkmark

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NCCER WELDING TECHNOLOGY II (3 CREDITS)	313713	3	~	~
NCCER MILLWRIGHT LEVEL I (1 CREDIT)	313714	1	~	✓
NCCER MILLWRIGHT LEVEL II (1 CREDIT)	313715	1	~	v
NCCER Millwright III (1 CREDIT)	313716	1	~	v
NCCER Millwright IV (1 CREDIT)	313717	1	~	~
NCCER MOBILE CRANE LEVEL I	313720	1	~	v
NCCER MOBILE CRANE LEVEL II	313721	1	~	v
NCCER HEAVY EQUIPMENT OPERATOR LEVEL I	313722	1	~	>
NCCER HEAVY EQUIPMENT OPERATOR LEVEL II	313723	1	~	~
SAFETY AND CONSTRUCTION SKILLS: YEAR 1	313724	1	~	~
SAFETY AND CONSTRUCTION SKILLS: YEAR 2	313725	1	~	~
NCCER Construction Crafts	313726	1	~	~
Quality Controls	313727	1	~	~
NCCER INDUSTRIAL MAINTENANCE LEVEL II (1 CREDIT)	313729	1	~	~
NCCER INDUSTRIAL MAINTENANCE ELECTRICAL & INSTRUMENTATION I	313730	2	~	~
NCCER Rigging I (1 Credit)	313731	1	~	~
NCCER Rigging I (2 Credit)	313732	2	~	~
NCCER Rigging I (3 Credit)	313733	3	~	~

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NCCER Rigging II (1 Credit)	313734	1	~	v
NCCER Rigging II (2 Credit)	313735	2	~	~
NCCER Rigging II (3 Credit)	313736	3	~	~
NCCER Rigging III (1 Credit)	313737	1	~	~
NCCER Rigging III (2 Credit)	313738	2	~	~
NCCER Rigging III (3 Credit)	313739	3	~	~
NCCER MILLWRIGHT LEVEL I (2 CREDITS)	313740	2	~	~
NCCER MILLWRIGHT LEVEL I (3 CREDITS)	313741	3	~	~
NCCER MILLWRIGHT LEVEL II (2 CREDITS)	313742	2	~	~
NCCER MILLWRIGHT LEVEL II (3 CREDITS)	313743	3	~	~
NCCER MILLWRIGHT LEVEL III (2 CREDITS)	313744	2	~	~
NCCER MILLWRIGHT LEVEL III (3 CREDITS)	313745	3	~	~
NCCER MILLWRIGHT LEVEL IV (2 CREDITS)	313746	2	~	~
NCCER MILLWRIGHT LEVEL IV (3 CREDITS)	313747	3	~	~
NCCER INSULATING I	313830	2	~	v
Introduction to Logistics	313831	1	~	
Transportation Management	313832	1	~	
Supply Chain Management	313833	1	~	

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Management Information Systems	313834	1	~	
Warehouse and Inventory Management	313835	1	~	
Maintenance Assistant	313836	1	~	
Logistics I	313837	1	~	
Logistics II	313838	1	~	
Logistics III	313839	1	~	
Logistics IV	313840	1	~	
NCCER Plumbing I (1 Credit)	321500	1	~	~
NCCER Plumbing I (2 Credits)	321502	2	~	~
NCCER Plumbing I (3Credits)	321503	3	~	~
NCCER Plumbing II (1 Credit)	321505	1	~	~
NCCER Plumbing II (2 Credit)	321512	2	~	~
NCCER Plumbing II (3 Credit)	321513	3	~	~
LCTCS course(s) that generate Dual Enrollment credit aligned with approved pathway courses				

*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway. Note: course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.

Universal Jump Start Courses – these courses are part of every Jump Start graduation pathway				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Accounting	040101	1	۵	
Accounting II	040104	1		۵
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Entrepreneurship (Business)	040110	1		
Word Processing	040203	1		
Computer Technology Literacy	040220	1		
Keyboarding	040225	1/2		
Keyboarding Applications	040226	1/2	0	
Keyboarding	040229	1		
Business Law	040303	1/2		
Business Communications	040305	1	0	
Principles of Business	040306	1		
Business Math*	040307	1		
Business Computer Applications (BCA)	040400	1		
Introduction to Business Computer Applications (IBCA)	040401	1		
Customer Service	041001	1		
Personal Finance	041022	1/2		
Principles of Marketing I	041025	1		
Principles of Marketing II	041026	1		
Entrepreneurship - Marketing	041040	1		
Entrepreneurship II - Advanced Micro-Enterprise Credentials	041041	1		Ο
JAG III	042030	1		Ο
JAG IV	042040	1		۵
Speech I	051101	1		
Speech II	051102	1		
Career Success Skills	080407	1		

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Principles of Finance	080670	1/2		
Entrepreneurship (NAF)	080685	1/2		
Managerial Accounting	080691	1/2		
Customer Service	080720	1/2	0	
Assistive Technology for the Visually Impaired	080900	1		
Business Enterprises for the Visually Impaired	080901	1		
Braille I	080902	1		
Braille II	080903	1		
First Responder	090710	1/2		
First Responder	090711	1	0	
First Responder	090712	2		
Technical Writing* [TOPS Tech-qualifying English course]	120350	1		
AMERICAN SIGN LANGUAGE I	123456	1		
AMERICAN SIGN LANGUAGE II	123457	1		
Technical Reading and Writing* (NOT a TOPS Tech-qualifying course)	125010	1		
Business Communications	125030	1		
Financial Literacy (formerly Financial Mathematics)*	160345	1		
Technical Math*	165010	1		
JR ROTC III	170003	1		
JR ROTC IV	170004	1		
Law Studies	220506	1		
Industrial and Plant Safety	311921	1		
Introduction to Hazardous Materials	311922	1		

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Workplace Safety (1 credit)	311923	1	۵	
Workplace Safety (2 credits)	311924	1		
Financial Literacy (formerly Financial Mathematics) INACTIVE COURSE CODE	040304	Please use course code 160345 for this cour		

*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway. Note: course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.

Career Readiness Courses – these courses are part of every Jump Start pathway

These courses all qualify as Career Readiness courses. Every Jump Start student must take a minimum of one Carnegie credit of Career Readiness courses.

There is no limit on the number of Career Readiness course credits a student may apply to the 9 CTE course credit requirement for the Jump Start Career Diploma.

Career Readiness courses are universal courses – they apply to every Jump Start graduation pathway.

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
AgriScience I*	010301	1	0	
Career Readiness Agriscience Agribusiness Natural Resources	010331	1		
JAG I	042010	1		
JAG II	042020	1		
Education for Careers	080400	1/2		
Education for Careers	080401	1		
Journey to Careers Part 1	080402	1/2		
Journey to Careers	080403	1		
Journey to Careers Part 2	080404	1/2		
Education for Careers Part I	080405	1/2		
Education for Careers Part II	080406	1/2		
Basic Career Readiness	080409	1		
Advanced Career Readiness (including regionally-developed Career Readiness Courses)	080410	1		

*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway. Note: course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.

Internships, Cooperative Courses and Virtual Workplace Experience Courses

Cooperative courses, Virtual Workplace Experience courses, Pre-Apprenticeship and Internships (*with the exception of Non-CTE Internships*) are universal courses - they apply to every Jump Start graduation pathway.

Internships

There are three types of internships:

- 1) **CDF-Qualifying Internships** where students are placed in a company that operates in one of the WIC-approved high-demand industry sectors. CDF-Qualifying Internships qualify for *both* the 6% MFP adder paid for all CTE courses *and* the 6% Career Development Fund (CDF) adder;
- 2) **CTE Internships** where students are placed in a company that operates in any other industry sectors. CTE Internships qualify *only* for the 6% MFP adder for all CTE courses; and
- Non-CTE internships where students are placed in a non-business internship. Non-CTE Internships do not qualify for any MFP adder. Examples
 of Non-CTE Internships include internships at a school office, a volunteer organization or a religious organization. Non-CTE Internships are
 not part of any Jump Start graduation pathway.

WIC-Approved High-Demand Industry Sectors						
Internships that qualify for the 6% CDF payment <u>must</u> be in a WIC-approved high-demand industry sector.						
Automotive Service/Repair	Healthcare	Manufacturing				
Construction Crafts	HVAC	Pharmacy				
• Culinary (only for students pursuing the statewide ProStart/ SafeServ credentials)	Information Technology	• Transportation and Logistics				

Internships					
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%	
CDF-Qualifying CTE Internship I (2 CREDITS)	080200	1	۵	0	
CDF-Qualifying CTE Internship II (2 CREDITS)	080201	2	۵	0	
CDF-Qualifying CTE Internship I (1 CREDIT)	080202	1	۵	Ο	
CDF-Qualifying CTE Internship II (1 CREDIT)	080203	2	۵	Ο	
CTE Internship I (1 credit; Non-CDF)	110402	1	۵		
CTE Internship I (2 credits; Non-CDF)	110403	2	۵		
CTE Internship II (1 credit; Non-CDF)	110404	1	۵		
CTE Internship II (2 credits; Non-CDF)	110405	2	۵		
Non-CTE Internships are <u>not</u> part of any	Jump Start graduat	ion pathway.			
Non-CTE Internship I	400200	1			
Non-CTE Internship I	400210	2			
Non-CTE Internship II	400220	2			
Non-CTE Internship II	400230	1			

Virtual Workplace Experience Courses approved for 2016-2017					
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%	
Virtual Workplace Experience I	080204	1/2			
Virtual Workplace Experience I	080205	1			
Virtual Workplace Experience II	080206	1/2			
Virtual Workplace Experience II	080207	1			
Authentic Workplace Experience	080212	1			

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Cooperative Courses					
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%	
Cooperative AgriScience Education I	010323	3			
Cooperative AgriScience Education II	010325	3			
Cooperative Office Education	040205	3			
Cooperative Marketing Education I	041010	3			
Cooperative Marketing Education II	041011	3			
General Cooperative Education I	080300	3			
General Cooperative Education II	080301	3			
Cooperative Health Occupations	090004	3			
Cooperative Family and Consumer Services	100800	3			
Cooperative Technology Education	110098	3			

Pre-Apprenticeship Courses				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Pre-Apprenticeship I (2 credits)	080208	2		
Pre-Apprenticeship II (2 credits)	080209	2		
Pre-Apprenticeship I (1 credit)	080210	1		
Pre-Apprenticeship II (1 credit)	080211	1		

CDF-Qualifying Pre-Apprenticeship Courses						
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%		
CDF-QUALIFYING PRE-APPRENTICESHIP I (1 CREDIT)	080230	1		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP I (2 CREDITS)	080231	2		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP II (1 CREDIT)	080233	1		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP II (2 CREDITS)	080234	2		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP III (1 CREDIT)	080236	1		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP III (2 CREDITS)	080237	2		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP IV (1 CREDIT)	080239	1		۵		
CDF-QUALIFYING PRE-APPRENTICESHIP IV (2 CREDITS)	080240	2		۵		

Culminating Credential(s)

To graduate using a Regional graduation pathway students must attain: 1) one Core credential or the equivalent LCTCS Certificate of Technical Studies / Technical Diploma; and 2) two Complementary credentials.

Students who graduate with Regional pathway credentials earn their school 100 accountability points.

<u>Core Credentials: students must attain one credential from the list below:</u>

Completion of NCCER Core *plus*

1) ABC-Pelican Level 1 AWS – first four modules, with student welds confirmed to American Society of Mechanical Engineer Standards by an independent testing company

		NCCER Welding Level 1 Certification Modules			
	#	Module Name	Hrs	Performance Test?	
	1	Welding Safety	2.5	No	
	2	Oxyfuel Cutting	17.5	Yes	
Culminating	3	Plasma Arc Cutting	7.5	Yes	
Credential(s) /	4	Air Carbon Arc Cutting and Gouging	12.5	Yes	
Certifying	5	Base Metal Preparation	12.5	Yes	
Industry Agency(ies)	6	Weld Quality	10	No	
	7	SMAW-Equipment and Setup	5	Yes	
	8	Shielded Metal Arc Electrodes	12.5	No	
	9	SMAW-Beads and Fillet Welds	120	Yes	
	10	Joint Fit-Up and Alignment	5	Yes	
	11	SMAW-Groove Welds with Backing	30	Yes	
	12	SMAW-Open V-Groove Welds	80	Yes	
		Total Level 1 Certification Hours*	377.5	* - not including NCCER Core	
		Total Helper Certification Hours*	62.5	(72.5 hours)	

2) NCCER Welding Partial Completion

(<u>Complementary Credentials: students must attain two credentials from the list below:</u>
1	Recommended Safety Complementary Credentials
1	1) Basic Safety Orientation - Association of Reciprocal Safety Councils
2	 First Aid for Students Certification – American Red Cross, American Heart Association, National Safety Council or approved equivalent or approved equivalent*
Э	3) OSHA 10 – General Industry - OSHA Certificate of Completion
2	 OSHA 10 – Construction - OSHA Certificate of Completion
*	* - Jump Start policy is flexible in recognizing all legitimate First Aid programs. Currently-approved First aid for Studen Certification include American Red Cross, American Heart Association and National Safety Council. If a district or charter scho wants to use a different First Aid certification, they must provide Jump Start with evidence that their intended First A certification includes all required components as well as a practical certification. Successful completion of First Aid certificatio requirements in Regional and Integrated pathways may include First Aid only, CPR and AED only, or a comprehensiv combination of First Aid, CPR and AED.
(Recommended Computer Literacy Complementary Credentials
5	5) Internet and Computing Core Certification (IC ³) – Certiport
	Microsoft Office Specialist Excel – Microsoft and Certiport
	7) Microsoft Office Specialist PowerPoint – Microsoft and Certiport
ξ	3) Microsoft Office Specialist Word – Microsoft and Certiport
(Other Recommended Complementary Credentials
9	O) Certified Guest Service Professional - American Hospitality & Lodging Association
1	0) National Career Readiness Certificate WorkKeys Silver, Gold or Platinum - ACT
1	 Complementary Micro-Enterprise Credential - BRAC (may not be used in conjunction with Regional Micro-Enterprise Credential)
1	Additional Approved (But Not Recommended) Complementary Credentials
1	2) OSHA 3115 Fall Protection – OSHA Certificate of Completion
1	L3) QuickBooks – Certiport (issue: this is a very demanding credential; students are encouraged to attain this credential, but will be significantly more challenging to attain than the recommended Complementary credentials)

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	Complementary Credentials No Longer Approved for this Pathway
Credentials No	HAZWOPER (not a Jump Start credential)
Longer	 OSHA 7300 Understanding Confined Space Entry – OSHA Certificate of Completion
Authorized for	• OSHA 7415 Construction industry hazarus – OSHA Certificate of Completion
this Pathway	See the Jump Start Policy Regarding OSHA Courses / Credentials (available for download from the Jump Start website) for
	additional details

Important Note on the Welding Credential

The LDOE supports the state's priority (as articulated by the Louisiana Workforce Investment Council - WIC) in maximizing the opportunities for students to receive welding training and earn welding industry-based credentials.

Therefore, the LDOE will approve pilot implementations of regionally-developed AWS Certification progressions as *the equivalent of the currently – approved Basic Statewide credential* through the 2018 – 2019 school year.

The two alternative AWS certifications that are currently approved as Basic Statewide credentials are:

- 1) AWS Certified Welder Code-D1.1; Process Shielded Metal Arc Welding (SMAW); Positions 1F 4F; and
- 2) AWS Certified Welder Code-D1.1; Process Shielded Metal Arc Welding (SMAW); positions 1F, 2F, 1G, 2G

Jump Start teams and/or districts seeking to gain approval for an alternative AWS Basic Statewide certification should forward their proposal to <u>JumpStart@la.gov</u>. All proposals must include documentation from local industry that the proposed credential will be regarded by employers as a Basic Statewide certification equivalent when it comes to hiring and compensation considerations.

During the summer of 2019 the LDOE will evaluate the hiring experiences of students with alternative Welder credentials. At that time, the LDOE (in collaboration with the LWC and WIC) will determine which Welder alternative Basic Statewide Credentials will continue to be included in Jump Start pathways.

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Sample Schedule

This schedule is *only one example* of how a student can meet the requirements of this pathway and graduate on time with the required culminating credential(s).

Each high school will develop its own standard schedules for Jump Start students based on the courses available to its students (in school, at the local technical college, or via Course Choice).

9 th Grade	10 th Grade		11 th Grade	12th GradeFinancial LiteracySenior Apps in EnglishTechnical Writing (ELA credit)Advanced Career ReadinessAWS/NCCER Welding II (T-JointWelder) – 2 creditsElective Course	
Algebra Readiness (non-math elective) Algebra I English I Civics <i>NCCER Core</i> <i>Basic Career Readiness</i> Physical Education I	Math Essentials English II Biology <i>Agriscience I</i> <i>Workplace Safety</i> Physical Education II / Health <i>Elective Course</i>		Geometry Business English Ag Science II J.S. History AWS/NCCER Welding I (Tack Nelder, Grinder, Rod dentifier/Runner) – 2 credits Elective Course		
7 credits	7 credits		7 credits	7 credits	
	Core Credential	Complementary Credentials			
Credentials Earned by this Hypothetical Student	NCCER Core <u>plus</u> NCCER Welding Level 1 Modules indicated above	1) Red Cro 2) OSHA 1	Cross First Aid and CPR for Students Certification (or approved equivalent) A 10		

Bold italicized courses count as one of the required 9 Carnegie credits for graduation via this pathway

Every Pathway Can be Adapted for Students Meeting the April Dunn Act Eligibility Criteria

Every Jump Start graduation pathway can be adapted for students with disabilities who meet the April Dunn Act eligibility criteria. Students must complete nine credits of CTE courses from the courses listed in the pathway. The IEP team has the authority to determine the credentialing level a student must achieve for the purposes of graduation (analogous to using individual performance criteria to meet EOC requirements for the purposes of graduation).

IEP teams with questions about how to adapt this graduation pathway for their student should contact JumpStart@la.gov

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