



Pathway Brief



MANUFACTURING

For incoming freshmen beginning 2020–2021

OVERVIEW

The Manufacturing Jump Start 2.0 Pathway prepares students to work in the process and production fields. Pathway coursework equips students to design, create, assemble, install, and repair electrical and mechanical systems. Students will be able to perform preventative maintenance procedures on machines, tools, and equipment on a routine and regular basis. This pathway also encompasses petrochemical courses where students will learn about the refining and processing of petroleum and/or natural gas. Manufacturing workers will be able to move into advanced manufacturing careers to use innovative technology to improve current products or processes to assist companies in producing their products more efficiently.

COLLEGE AND CAREER CONNECTIONS

Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.

High School to Career	Community/Technical College to Career	University to Career
Entry Level Warehouse Operator	Mechanical/Piping/Electrical Designer Trainee	Chemical Engineer
Instrument Technician Trainee	Instrument Technician	Mechanical Engineer
Electrical Technician Trainee	Electrical Technician	Electrical Engineer

CAPSTONE CREDENTIALS

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

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
AutoDesk Certified User: • Fusion 360 • Rivet	ADDA Certified Mechanical Apprentice Drafter	AutoDesk Inventor Certified User
AWS Welding 1G	Autodesk Certified User AutoCAD	Carpenter International Training Fund (CITF) Career Connections, Millwright Level 1, Welding Level 2
Maritime Safety Credentials Suite: Personal Safety/Social Responsibilities, Basic Water Survival, Basic Firefighting AND Basic First Aid/CPR AED	Carpenters International Training Fund (CITF): • Welding Level 1	Electrical Training ALLIANCE Interim Credential (etA): Levels 1-5
	Certified Logistics Associate or Technician (MSSC)	NCCER Level 2 or above • Electrical • Instrumentation • Industrial Maintenance • Mechanic • Mechanical Insulating • Millwright • Mobile Crane Operations • Pipefitting • Welding
NCCER: • Basic Rigger • Helper Modules • Industrial Coating & Lining Application Specialist	Certified Production Technician (CPT) AND Certified Production Technician Plus (CPT+)	
OSHA: • OSHA 10** • OSHA 30	Electrical Training ALLIANCE Interim Credential etA): • Levels 1-3 • Level 4 • Level 5	
PEC Basic Orientation: • Safe Land • Safe Gulf	Geographic Information System - Entry Level Technician Certification	NIMS Machining Level 2 Certification
Water Survival/Helicopter Underwater Egress Training (HUET)	Louisiana Micro-Enterprise - Statewide	
	NCCER Level 1 • Electrical • Heavy Equipment Operations • Instrumentation • Industrial Maintenance • Mechanic • Mechanical Insulating • Millwright • Mobile Crane Operations • Pipefitting • Welding	
	NIMS Machining Level 1 Certification	
	North America's Building Trades Unions Multi-Craft Core Curriculum (MC3)	
	Production Safety Systems (T-2) Basic	

*Aligned to pathway.

UNIVERSAL DOCUMENTS

[CDF ELIGIBLE COURSES](#)

[JUMP START FUNDING](#)

[UNIVERSAL COURSE CODES](#)

				Course Code	Credits Allowed	Credits Required	Course Name	Actions
2020	CA	13	U13	310383	1	0.5	Advanced Electrical Electronics	
2020	CA	13	U13	110610	1	0.5	ADVANCED ELECTRICITY/ELECTRONICS	
2020	CA	13	U13	160347	1	0.5	ADVANCED MATH - FUNCTIONS AND STATISTICS	
2020	CA	13	U13	160346	1	0.5	ADVANCED MATHEMATICS - PRE-CALCULUS	
2020	CA	13	U13	110240	1	0.5	ADVANCED METAL TECHNOLOGY	
2020	CA	13	U13	110590	1	0.5	ADVANCED TECHNICAL DRAFTING	
2020	CA	13	U13	110830	1	0.5	AEROSPACE ENGINEERING (1 CREDIT)	
2020	CA	13	U13	010364	1	0.5	AG LEADERSHIP (1 CREDIT)	
2020	CA	13	U13	010446	1	0.5	AG POWER EQUIPMENT (1 CREDIT)	
2020	CA	13	U13	010302	1	0.5	AGRISCIENCE II	
2020	CA	13	U13	010303	1	0.5	AGRISCIENCE III	
2020	CA	13	U13	010304	1	0.5	AGRISCIENCE IV	
2020	CA	13	U13	310100	1	0.5	AIR CONDITIONING/REFRIGERATION I (1 CREDIT)	
2020	CA	13	U13	310102	2	2	AIR CONDITIONING/REFRIGERATION I (2 CREDITS)	
2020	CA	13	U13	310103	3	1.5	AIR CONDITIONING/REFRIGERATION I (3 CREDITS)	
2020	CA	13	U13	310105	1	0.5	AIR CONDITIONING/REFRIGERATION II (1 CREDIT)	
2020	CA	13	U13	310112	2	2	AIR CONDITIONING/REFRIGERATION II (2 CREDITS)	
2020	CA	13	U13	310113	3	1.5	AIR CONDITIONING/REFRIGERATION II (3 CREDITS)	
2020	CA	13	U13	110580	1	0.5	ARCHITECTURAL DRAFTING	
2020	CA	13	U13	313100	1	0.5	AWS WELDING I (1 credit)	
2020	CA	13	U13	313102	2	2	AWS WELDING I (2 credits)	
2020	CA	13	U13	313103	3	1.5	AWS WELDING I (3 credits)	
2020	CA	13	U13	313105	1	0.5	AWS WELDING II (1 credit)	
2020	CA	13	U13	313106	2	2	AWS WELDING II (2 credits)	
2020	CA	13	U13	313107	3	1.5	AWS WELDING II (3 credits)	
2020	CA	13	U13	313108	1	0.5	AWS Welding III (1 credit)	
2020	CA	13	U13	313109	2	2	AWS Welding III (2 credits)	
2020	CA	13	U13	313110	3	1.5	AWS Welding III (3 credits)	
2020	CA	13	U13	313111	1	0.5	AWS Welding IV (1 credit)	
2020	CA	13	U13	313112	2	2	AWS Welding IV (2 credits)	
2020	CA	13	U13	313113	3	1.5	AWS Welding IV (3 credits)	
2020	CA	13	U13	110600	1	0.5	BASIC ELECTRICITY/ELECTRONICS	
2020	CA	13	U13	110200	1	0.5	BASIC METAL TECHNOLOGY I	
2020	CA	13	U13	313120	1	0.5	Basic SMAW	
2020	CA	13	U13	110560	1	0.5	BASIC TECHNICAL DRAFTING	
2020	CA	13	U13	010913	1	0.5	C4M in Agriscience I (1Credit)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010914	2	2	C4M in Agriscience I (2 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010915	2	2	C4M in Agriscience I (3 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010916	1	0.5	C4M in Agriscience II (1 Credit)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010917	2	2	C4M in Agriscience II (2 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010918	2	2	C4M in Agriscience II (3 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010919	1	0.5	C4M in Agriscience III (1 Credit)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010920	2	2	C4M in Agriscience III (2 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010921	2	2	C4M in Agriscience III (3 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010922	2	2	C4M in Agriscience IV (1 Credit)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010923	2	2	C4M in Agriscience IV (2 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	010924	2	2	C4M in Agriscience IV (3 Credits)	Remove 2024 - Discontinued by provider
2020	CA	13	U13	080230	1	0.5	CDF-QUALIFYING PRE-APPRENTICESHIP I (1 CREDIT)	Remove 2023 - Universal Course List
2020	CA	13	U13	080231	2	2	CDF-QUALIFYING PRE-APPRENTICESHIP I (2 CREDITS)	Remove 2023 - Universal Course List
2024	CA	13	U13	080058	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Millwright	Added 2024-2025
2024	CA	13	U13	080054	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Welding	Added 2024-2025
2020	CA	13	U13	080233	1	0.5	CDF-QUALIFYING PRE-APPRENTICESHIP II (1 CREDIT)	
2020	CA	13	U13	080234	2	2	CDF-QUALIFYING PRE-APPRENTICESHIP II (2 CREDITS)	
2024	CA	13	U13	080055	3	1	CDF-Qualifying Pre-Apprenticeship II: CITF Welding	Added 2024-2025

				Course Code	Credits Allowed	Credits Required	Course Name	Actions
2020	CA	13	U13	080236	1	0.5	CDF-QUALIFYING PRE-APPRENTICESHIP III (1 CREDIT)	
2020	CA	13	U13	080237	2	2	CDF-QUALIFYING PRE-APPRENTICESHIP III (2 CREDITS)	
2020	CA	13	U13	080239	1	0.5	CDF-QUALIFYING PRE-APPRENTICESHIP IV (1 CREDIT)	
2020	CA	13	U13	080240	2	2	CDF-QUALIFYING PRE-APPRENTICESHIP IV (2 CREDITS)	
2020	CA	13	U13	150401	1	0.5	CHEMISTRY	
2024	CA	13	U13	150413	1	0.5	Chemistry I: DE - CCEM 1013 General Chemistry Survey I	Added 2024-2025
2024	CA	13	U13	150414	1	0.5	Chemistry I: DE - CCEM 1103 Chemistry I	Added 2024-2025
2024	CA	13	U13	150415	1	0.5	Chemistry I: DE - CCEM 1123 Chemistry I (Sci Majors)	Added 2024-2025
2024	CA	13	U13	150412	1	0.5	Chemistry I: Gifted	Added 2024-2025
2024	CA	13	U13	150400	1	0.5	Chemistry I: Honors	Added 2024-2025
2020	CA	13	U13	110570	1	0.5	CMAD Drafting	
2020	CA	13	U13	110571	2	2	CMAD Drafting (2 credit)	
2020	CA	13	U13	110572	3	1.5	CMAD Drafting (3 credit)	
2020	CA	13	U13	110850	1	0.5	COMPUTER INTEGRATED MANUFACTURING (1 CREDIT)	
2020	CA	13	U13	040220	1	0.5	COMPUTER TECHNOLOGY LITERACY	
2020	CA	13	U13	110108	1	0.5	Construction Math - Level 1	
2020	CA	13	U13	110109	1	0.5	Construction Math - Level 2	
2020	CA	13	U13	080532	1	0.5	DATA MANIPULATION AND ANALYSIS (LSU PARTNERSHIP)	
2020	CA	13	U13	310622	1	0.5	Design, Blueprint Reading and Codes	
2020	CA	13	U13	311300	1	0.5	DRAFTING & DESIGN TECHNOLOGY I (1 CREDIT)	
2020	CA	13	U13	311302	2	2	DRAFTING & DESIGN TECHNOLOGY I (2 CREDITS)	
2020	CA	13	U13	311303	3	1.5	DRAFTING & DESIGN TECHNOLOGY I (3 CREDITS)	
2020	CA	13	U13	311305	1	0.5	DRAFTING & DESIGN TECHNOLOGY II (1 CREDIT)	
2020	CA	13	U13	311312	2	2	DRAFTING & DESIGN TECHNOLOGY II (2 CREDITS)	
2020	CA	13	U13	311313	3	1.5	DRAFTING & DESIGN TECHNOLOGY II (3 CREDITS)	
2020	CA	13	U13	311400	1	0.5	ELECTRICIAN I (1 CREDIT)	
2020	CA	13	U13	311402	2	2	ELECTRICIAN I (2 CREDITS)	
2020	CA	13	U13	311403	3	1.5	ELECTRICIAN I (3 CREDITS)	
2020	CA	13	U13	311405	1	0.5	ELECTRICIAN II (1 CREDIT)	
2020	CA	13	U13	311412	2	2	ELECTRICIAN II (2 CREDITS)	
2020	CA	13	U13	311413	3	1.5	ELECTRICIAN II (3 CREDITS)	
2020	CA	13	U13	110860	1	0.5	Engineering Design and Development	
2020	CA	13	U13	110861	1	0.5	ENGINEERING DESIGN AND DEVELOPMENT (LSU PARTNERSHIP)	
2020	CA	13	U13	080110	1	0.5	ENGINEERING DESIGN I (1 CREDIT)	
2020	CA	13	U13	080111	2	2	ENGINEERING DESIGN I (2 CREDITS)	
2020	CA	13	U13	080112	3	1.5	ENGINEERING DESIGN I (3 CREDITS)	
2020	CA	13	U13	080120	1	0.5	ENGINEERING DESIGN II (1 CREDIT)	
2020	CA	13	U13	080122	3	1.5	ENGINEERING DESIGN II (3 CREDITS)	
2020	CA	13	U13	150310	1	0.5	ENVIRONMENTAL SCIENCE	
2020	CA	13	U13	150311	1	0.5	Environmental Science: AP Environmental Science	
2020	CA	13	U13	150914	1	0.5	Environmental Science: DE - CEVS 1103 Environmental Science	
2024	CA	13	U13	150913	1	0.5	Environmental Science: Gifted	Added 2024-2025
2024	CA	13	U13	150328	1	0.5	Environmental Science: Honors	Added 2024-2025
2020	CA	13	U13	150740	1	0.5	FIRST ROBOTICS I (1 CREDIT)	
2020	CA	13	U13	150750	1	0.5	FIRST ROBOTICS II (1 CREDIT)	
2020	CA	13	U13	150760	1	0.5	FIRST ROBOTICS III (1 CREDIT)	
2020	CA	13	U13	150770	1	0.5	FIRST ROBOTICS IV (1 CREDIT)	
2020	CA	13	U13	110331	1	0.5	Fluid Mechanics	
2020	CA	13	U13	310631	1	0.5	Fundamentals of Industrial Scaffolding (1 Credit)	
2020	CA	13	U13	310632	2	2	Fundamentals of Industrial Scaffolding (2 Credits)	
2020	CA	13	U13	313200	1	0.5	G.M. TECHNICIAN I (1 CREDIT)	
2020	CA	13	U13	313202	2	2	G.M. TECHNICIAN I (2 CREDITS)	
2020	CA	13	U13	313203	3	1.5	G.M. TECHNICIAN I (3 CREDITS)	
2020	CA	13	U13	160323	1	0.5	GEOMETRY	
2020	CA	13	U13	010103	1	0.5	GIS Entry Level 1	
2020	CA	13	U13	010104	1	0.5	GIS Entry Level 2	
2020	CA	13	U13	110231	1	0.5	Grinder Assistant	
2020	CA	13	U13	311921	1	0.5	Industrial and Plant Safety	
2020	CA	13	U13	311800	1	0.5	INDUSTRIAL ELECTRONICS I (1 CREDIT)	
2020	CA	13	U13	311802	2	2	INDUSTRIAL ELECTRONICS I (2 CREDITS)	
2020	CA	13	U13	311803	3	1.5	INDUSTRIAL ELECTRONICS I (3 CREDITS)	
2020	CA	13	U13	311805	1	0.5	INDUSTRIAL ELECTRONICS II (1 CREDIT)	
2020	CA	13	U13	311812	2	2	INDUSTRIAL ELECTRONICS II (2 CREDITS)	

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2020	CA	13	U13	311813	3	1.5	INDUSTRIAL ELECTRONICS II (3 CREDITS)	
2020	CA	13	U13	311917	3	1.5	INDUSTRIAL MACHINES SHOP III (3 CREDITS)	
2020	CA	13	U13	311900	1	0.5	INDUSTRIAL MACHINES SHOP I (1 CREDIT)	
2020	CA	13	U13	311902	2	2	INDUSTRIAL MACHINES SHOP I (2 CREDITS)	
2020	CA	13	U13	311903	3	1.5	INDUSTRIAL MACHINES SHOP I (3 CREDITS)	
2020	CA	13	U13	311905	1	0.5	INDUSTRIAL MACHINES SHOP II (1 CREDIT)	
2020	CA	13	U13	311912	2	2	INDUSTRIAL MACHINES SHOP II (2 CREDITS)	
2020	CA	13	U13	311913	3	1.5	INDUSTRIAL MACHINES SHOP II (3 CREDITS)	
2020	CA	13	U13	311915	1	0.5	Industrial Machines Shop III (1 credit)	
2020	CA	13	U13	311916	2	2	INDUSTRIAL MACHINES SHOP III (2 CREDITS)	
2020	CA	13	U13	311918	1	0.5	Industrial Machines Shop IV (1 credit)	
2020	CA	13	U13	311919	2	2	INDUSTRIAL MACHINES SHOP IV (2 CREDITS)	
2020	CA	13	U13	311920	3	1.5	INDUSTRIAL MACHINES SHOP IV (3 CREDITS)	
2020	CA	13	U13	061141	1	0.5	Intro to Computational Thinking	
2020	CA	13	U13	061140	1	0.5	INTRO TO COMPUTATIONAL THINKING FOR STEM (LSU PARTNERSHIP)	
2020	CA	13	U13	110800	1	1	INTRODUCTION TO ENGINEERING DESIGN (1 CREDIT)	
2020	CA	13	U13	110801	1	0.5	INTRODUCTION TO ENGINEERING DESIGN (LSU PARTNERSHIP)	
2020	CA	13	U13	110799	0.5	0.5	INTRODUCTION TO ENGINEERING DESIGN I (1/2 CREDIT)	
2020	CA	13	U13	311922	1	0.5	Introduction to Hazardous Materials	
2020	CA	13	U13	313831	1	0.5	Introduction to Logistics	Added 2023-2024
2020	CA	13	U13	110795	1	0.5	Introduction to Remote Controlled Vehicle Technologies	
2020	CA	13	U13	080818	1	0.5	Introduction to Social Media	
2020	CA	13	U13	313836	1	0.5	Maintenance Assistant	
2020	CA	13	U13	110256	1	0.5	MANUFACTURING PROCESS AND TEAM BUILDING (1 CREDIT)	
2020	CA	13	U13	110250	1	0.5	MANUFACTURING TECHNOLOGY	
2020	CA	13	U13	110257	1	0.5	MANUFACTURING TOOLS AND EQUIPMENT (1 CREDIT)	
2020	CA	13	U13	110005	1	0.5	MATERIALS AND PROCESSES	
2020	CA	13	U13	311720	1	0.5	NCCER Core	Remove 2023 - Universal Course List
2020	CA	13	U13	313400	1	0.5	NCCER ELECTRICAL I (1 CREDIT)	
2020	CA	13	U13	110711	1	0.5	NCCER ELECTRICAL I (1 CREDIT)	
2020	CA	13	U13	313402	2	2	NCCER ELECTRICAL I (2 CREDITS)	
2020	CA	13	U13	110712	2	2	NCCER ELECTRICAL I (2 CREDITS)	
2020	CA	13	U13	313403	3	1.5	NCCER ELECTRICAL I (3 CREDITS)	
2020	CA	13	U13	110713	3	1.5	NCCER ELECTRICAL I (3 CREDITS)	
2020	CA	13	U13	313405	1	0.5	NCCER ELECTRICAL II (1 CREDIT)	
2020	CA	13	U13	110716	1	0.5	NCCER ELECTRICAL II (1 CREDIT)	
2020	CA	13	U13	313412	2	2	NCCER ELECTRICAL II (2 CREDITS)	
2020	CA	13	U13	110717	2	2	NCCER ELECTRICAL II (2 CREDITS)	
2020	CA	13	U13	313413	3	1.5	NCCER ELECTRICAL II (3 CREDITS)	
2020	CA	13	U13	110718	3	1.5	NCCER ELECTRICAL II (3 CREDITS)	
2020	CA	13	U13	313417	1	0.5	NCCER Electrical III (1 Credit)	
2020	CA	13	U13	313418	2	2	NCCER Electrical III (2 Credits)	
2020	CA	13	U13	313419	3	1.5	NCCER Electrical III (3 Credits)	
2020	CA	13	U13	010701	1	0.5	NCCER ELECTRICAL IN AGRISCIENCE (1 CREDIT)	
2020	CA	13	U13	010702	2	2	NCCER ELECTRICAL IN AGRISCIENCE (2 CREDITS)	
2020	CA	13	U13	010703	3	1.5	NCCER ELECTRICAL IN AGRISCIENCE (3 CREDITS)	
2020	CA	13	U13	010704	1	0.5	NCCER Electrical in Agriscience II (1CR)	
2020	CA	13	U13	010705	1	0.5	NCCER Electrical in Agriscience II (2CR)	
2020	CA	13	U13	010706	1	0.5	NCCER Electrical in Agriscience II (3CR)	
2020	CA	13	U13	313420	1	0.5	NCCER Electrical IV (1 Credit)	
2020	CA	13	U13	313421	2	2	NCCER Electrical IV (2 Credits)	
2020	CA	13	U13	313422	3	1.5	NCCER Electrical IV (3 Credits)	
2024	CA	13	U13	313722	1	0.5	NCCER Heavy Equipment Operator Level I	Added 2024-2025
2020	CA	13	U13	313730	2	2	NCCER INDUSTRIAL MAINTENANCE ELECTRICAL & INSTRUMENTATION I	
2020	CA	13	U13	313729	1	0.5	NCCER INDUSTRIAL MAINTENANCE LEVEL II (1 CREDIT)	
2020	CA	13	U13	313500	1	0.5	NCCER INSTRUMENTATION CONTROL MECHANIC I (1 CREDIT)	
2020	CA	13	U13	110721	1	0.5	NCCER INSTRUMENTATION CONTROL MECHANIC I (1 CREDIT)	
2020	CA	13	U13	313502	2	2	NCCER INSTRUMENTATION CONTROL MECHANIC I (2 CREDITS)	
2020	CA	13	U13	110722	2	2	NCCER INSTRUMENTATION CONTROL MECHANIC I (2 CREDITS)	
2020	CA	13	U13	313503	3	1.5	NCCER INSTRUMENTATION CONTROL MECHANIC I (3 CREDITS)	
2020	CA	13	U13	110723	3	1.5	NCCER INSTRUMENTATION CONTROL MECHANIC I (3 CREDITS)	
2020	CA	13	U13	313505	1	0.5	NCCER INSTRUMENTATION CONTROL MECHANIC II (1 CREDIT)	
2020	CA	13	U13	110726	1	0.5	NCCER INSTRUMENTATION CONTROL MECHANIC II (1 CREDIT)	

				Course Code	Credits Allowed	Credits Required	Course Name	Actions
2020	CA	13	U13	313512	2	2	NCCER INSTRUMENTATION CONTROL MECHANIC II (2 CREDITS)	
2020	CA	13	U13	110727	2	2	NCCER INSTRUMENTATION CONTROL MECHANIC II (2 CREDITS)	
2020	CA	13	U13	313513	3	1.5	NCCER INSTRUMENTATION CONTROL MECHANIC II (3 CREDITS)	
2020	CA	13	U13	110728	3	1.5	NCCER INSTRUMENTATION CONTROL MECHANIC II (3 CREDITS)	
2020	CA	13	U13	313517	1	0.5	NCCER Instrumentation Control Mechanic III	
2020	CA	13	U13	313520	1	0.5	NCCER Instrumentation IV	
2020	CA	13	U13	313829	1	0.5	NCCER INSULATING I (1 CREDIT)	
2020	CA	13	U13	313830	2	2	NCCER INSULATING I (2 CREDITS)	
2020	CA	13	U13	313714	1	0.5	NCCER MILLWRIGHT LEVEL I (1 CREDIT)	
2020	CA	13	U13	313740	2	2	NCCER MILLWRIGHT LEVEL I (2 CREDITS)	
2020	CA	13	U13	313741	3	1.5	NCCER MILLWRIGHT LEVEL I (3 CREDITS)	
2020	CA	13	U13	313715	1	0.5	NCCER MILLWRIGHT LEVEL II (1 CREDIT)	
2020	CA	13	U13	313742	2	2	NCCER MILLWRIGHT LEVEL II (2 CREDITS)	
2020	CA	13	U13	313743	3	1.5	NCCER MILLWRIGHT LEVEL II (3 CREDITS)	
2020	CA	13	U13	313716	1	0.5	NCCER MILLWRIGHT LEVEL III (1 CREDIT)	
2020	CA	13	U13	313744	2	2	NCCER MILLWRIGHT LEVEL III (2 CREDITS)	
2020	CA	13	U13	313745	3	1.5	NCCER MILLWRIGHT LEVEL III (3 CREDITS)	
2020	CA	13	U13	313717	1	0.5	NCCER MILLWRIGHT LEVEL IV (1 CREDIT)	
2020	CA	13	U13	313746	2	2	NCCER MILLWRIGHT LEVEL IV (2 CREDITS)	
2020	CA	13	U13	313747	3	1.5	NCCER MILLWRIGHT LEVEL IV (3 CREDITS)	
2020	CA	13	U13	313605	1	0.5	NCCER PIPE FITTER II (1 CREDIT)	
2020	CA	13	U13	313600	1	0.5	NCCER PIPEFITTER I (1 CREDIT)	
2020	CA	13	U13	110731	1	0.5	NCCER PIPEFITTER I (1 CREDIT)	
2020	CA	13	U13	313602	2	2	NCCER PIPEFITTER I (2 CREDITS)	
2020	CA	13	U13	110732	2	2	NCCER PIPEFITTER I (2 CREDITS)	
2020	CA	13	U13	313603	3	1.5	NCCER PIPEFITTER I (3 CREDITS)	
2020	CA	13	U13	110733	3	1.5	NCCER PIPEFITTER I (3 CREDITS)	
2020	CA	13	U13	110736	1	0.5	NCCER PIPEFITTER II (1 CREDIT)	
2020	CA	13	U13	313612	2	2	NCCER PIPEFITTER II (2 CREDITS)	
2020	CA	13	U13	110737	2	2	NCCER PIPEFITTER II (2 CREDITS)	
2020	CA	13	U13	313613	3	1.5	NCCER PIPEFITTER II (3 CREDITS)	
2020	CA	13	U13	110738	3	1.5	NCCER PIPEFITTER II (3 CREDITS)	
2020	CA	13	U13	313617	1	0.5	NCCER PIPEFITTER III (1 CREDIT)	
2020	CA	13	U13	313616	2	2	NCCER PIPEFITTER III (2 CREDITS)	
2020	CA	13	U13	313620	1	0.5	NCCER PIPEFITTER IV (1 CREDIT)	
2020	CA	13	U13	313619	2	2	NCCER PIPEFITTER IV (2 CREDITS)	
2020	CA	13	U13	010801	1	0.5	NCCER PIPEFITTING IN AGRISCIENCE (1 CREDIT)	
2020	CA	13	U13	010802	2	2	NCCER PIPEFITTING IN AGRISCIENCE (2 CREDITS)	
2020	CA	13	U13	010803	3	1.5	NCCER PIPEFITTING IN AGRISCIENCE (3 CREDITS)	
2020	CA	13	U13	010804	1	0.5	NCCER Pipefitting in Agriscience II (1 credit)	
2020	CA	13	U13	010805	2	2	NCCER Pipefitting in Agriscience II (2 credit)	
2020	CA	13	U13	010806	3	1.5	NCCER Pipefitting in Agriscience II (3 credit)	
2020	CA	13	U13	313731	1	0.5	NCCER Rigging I (1 Credit)	
2020	CA	13	U13	313732	2	2	NCCER Rigging I (2 Credit)	
2020	CA	13	U13	313733	3	1.5	NCCER Rigging I (3 Credit)	
2020	CA	13	U13	313734	1	0.5	NCCER Rigging II (1 Credit)	
2020	CA	13	U13	313735	2	2	NCCER Rigging II (2 Credit)	
2020	CA	13	U13	313736	3	1.5	NCCER Rigging II (3 Credit)	
2020	CA	13	U13	313737	1	0.5	NCCER Rigging III (1 Credit)	
2020	CA	13	U13	313738	2	2	NCCER Rigging III (2 Credit)	
2020	CA	13	U13	313739	3	1.5	NCCER Rigging III (3 Credit)	
2020	CA	13	U13	321000	1	0.5	NCCER Scaffolding Level I (1 credit)	
2020	CA	13	U13	321001	2	2	NCCER Scaffolding Level I (2 credits)	
2020	CA	13	U13	321002	3	1.5	NCCER Scaffolding Level I (3 credits)	
2020	CA	13	U13	010901	1	0.5	NCCER WELDING IN AGRISCIENCE (1 CREDIT)	
2020	CA	13	U13	010902	2	2	NCCER WELDING IN AGRISCIENCE (2 CREDITS)	
2020	CA	13	U13	010903	3	1.5	NCCER WELDING IN AGRISCIENCE (3 CREDITS)	
2020	CA	13	U13	010904	1	0.5	NCCER Welding in Agriscience II (1 credit)	
2020	CA	13	U13	010905	2	2	NCCER Welding in Agriscience II (2 credits)	
2020	CA	13	U13	010906	3	1.5	NCCER Welding in Agriscience II (3 credits)	
2020	CA	13	U13	313700	1	0.5	NCCER WELDING TECHNOLOGY I (1 CREDIT)	
2020	CA	13	U13	110741	1	0.5	NCCER WELDING TECHNOLOGY I (1 CREDIT)	
2020	CA	13	U13	313702	2	2	NCCER WELDING TECHNOLOGY I (2 CREDITS)	

				Course Code	Credits Allowed	Credits Required	Course Name	Actions
2020	CA	13	U13	110742	2	2	NCCER WELDING TECHNOLOGY I (2 CREDITS)	
2020	CA	13	U13	313703	3	1.5	NCCER WELDING TECHNOLOGY I (3 CREDITS)	
2020	CA	13	U13	110743	3	1.5	NCCER WELDING TECHNOLOGY I (3 CREDITS)	
2020	CA	13	U13	313705	1	0.5	NCCER WELDING TECHNOLOGY II (1 CREDIT)	
2020	CA	13	U13	110746	1	0.5	NCCER WELDING TECHNOLOGY II (1 CREDIT)	
2020	CA	13	U13	313712	2	2	NCCER WELDING TECHNOLOGY II (2 CREDITS)	
2020	CA	13	U13	110747	2	2	NCCER WELDING TECHNOLOGY II (2 CREDITS)	
2020	CA	13	U13	313713	3	1.5	NCCER WELDING TECHNOLOGY II (3 CREDITS)	
2020	CA	13	U13	110748	3	1.5	NCCER WELDING TECHNOLOGY II (3 CREDITS)	
2020	CA	13	U13	313621	1	0.5	NCCER Welding Technology III (1 credit)	
2020	CA	13	U13	313622	2	2	NCCER Welding Technology III (2 credits)	
2020	CA	13	U13	313623	3	1.5	NCCER Welding Technology III (3 credits)	
2020	CA	13	U13	313624	1	0.5	NCCER Welding Technology IV (1 credit)	
2020	CA	13	U13	313625	2	2	NCCER Welding Technology IV (2 credits)	
2020	CA	13	U13	313626	3	1.5	NCCER Welding Technology IV (3 credits)	
2020	CA	13	U13	110955	1	0.5	OIL AND GAS PRODUCTION OPERATIONS (1 CREDIT)	
2020	CA	13	U13	150000	1	0.5	Physics I	
2020	CA	13	U13	110862	1	0.5	PLTW Engineering Design and Development	
2020	CA	13	U13	110802	1	0.5	PLTW Introduction to Engineering Design	
2020	CA	13	U13	080109	1	0.5	PLTW Principles of Engineering	
2020	CA	13	U13	110810	1	0.5	Principles of Engineering (1 Credit)	
2020	CA	13	U13	110811	2	2	Principles of Engineering (2 Credits)	
2020	CA	13	U13	110864	1	0.5	PRINCIPLES OF ENGINEERING (LSU PARTNERSHIP)	
2020	CA	13	U13	110915	1	0.5	Process Instrumentation I	
2020	CA	13	U13	110916	1	0.5	Process Instrumentation II	
2020	CA	13	U13	110911	1	0.5	PROCESS TECHNICIAN I (1 credit)	
2020	CA	13	U13	110913	2	2	Process Technician I (2 credits)	
2020	CA	13	U13	110914	3	1.5	Process Technician I (3 credits)	
2020	CA	13	U13	110912	1	0.5	PROCESS TECHNICIAN II (1 credit)	
2020	CA	13	U13	110917	2	2	Process Technician II (2 credits)	
2020	CA	13	U13	110918	3	1.5	Process Technician II (3 credits)	
2020	CA	13	U13	110919	1	0.5	Process Technician III (1 credit)	
2020	CA	13	U13	110920	2	2	Process Technician III (2 credits)	
2020	CA	13	U13	110921	3	1.5	Process Technician III (3 credits)	
2020	CA	13	U13	110922	1	0.5	Process Technology I: Equipment	
2020	CA	13	U13	110923	1	0.5	Process Technology II: Unit Systems	
2020	CA	13	U13	110924	1	0.5	Process Technology III: Operations	
2020	CA	13	U13	313727	1	0.5	Quality Controls	
2020	CA	13	U13	150780	1	0.5	ROBOTICS (LSU PARTNERSHIP)	
2020	CA	13	U13	150730	1	0.5	ROBOTICS: ADVANCED (1 CREDIT)	
2020	CA	13	U13	150731	2	2	ROBOTICS: ADVANCED (2 CREDITS)	
2020	CA	13	U13	150723	1	0.5	ROBOTICS: BEGINNER (1 CREDIT)	
2020	CA	13	U13	150729	1	0.5	ROBOTICS: INTERMEDIATE (1 CREDIT)	
2020	CA	13	U13	312700	1	0.5	SHEET METAL I (1 CREDIT)	
2020	CA	13	U13	312702	2	2	SHEET METAL I (2 CREDITS)	
2020	CA	13	U13	312703	3	1.5	SHEET METAL I (3 CREDITS)	
2020	CA	13	U13	313123	1	0.5	SMAW Pipe 5G	
2020	CA	13	U13	313124	1	0.5	SMAW Pipe 6G	
2020	CA	13	U13	110956	1	0.5	T2 SAFETY SYSTEMS FOR OIL AND GAS PRODUCTION (1 CREDIT)	
2020	CA	13	U13	110230	1	0.5	WELDING TECHNOLOGY	