AGRICULTURE, FOOD & NATURAL RESOURCES

For incoming freshmen beginning 2020–2021

OVERVIEW

The Agriculture, Food, and Natural Resources Jump Start 2.0 Pathway immerses students in the fields of agriculture and related sciences. This pathway equips students with the knowledge of basic animal, plant, and soil science; plant cultivation and soil conservation; and agricultural operations such as farming, ranching, and logging. Pathway coursework also provides instruction in subjects such as climate, air, soil, water, land, fish, wildlife, and plant resources; basic principles of environmental science and natural resource management; and agricultural business. Students will also learn about the recreational and economic uses of renewable and nonrenewable natural resources.

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
Crop Scout and Farm Laborer	Agricultural Mechanics Technology Technician	Ag Ed Leadership
Meat, Poultry, & Fish Cutter	Grain/Farm Manager	Food/Animal Science
Logger, Tree Tagger	Forestry and Conservation Technician	Horticulture/Forestry Science
Environmental Sampling Technician	Environmental Monitoring	Environmental Management Systems

CAPSTONE CREDENTIALS

To graduate, Jump Start students must earn at least one credential from the list below. Some options may require more than one credential. These are noted with ‡ Credential codes and their Thrive Accelerator Index values can be found in the Industry-Based Certification Accelerator Matrix.

Agricultural Career Development	Four Stroke Engine Technician
Agricultural Leadership Development	Geographic Information System - Entry Level Technician Certification
Agriculture Mechanics	Louisiana Agritechnology (Louisiana Farm Bureau Federation)
BASF Plant Science Certification	Meat Processing
Career and Technical Certificate (LCTCS)*	Technical Diploma (LCTCS)*
Certificate of Technical Studies (LCTCS)*	Water Distribution Operator I
Ducks Unlimited Ecology Conservation and Management Certification	Water Production Operator I
FAA Part 107: Small Unmanned Aircraft Operations	‡Water Production Operator I, Water Treatment Operator I, AND Water Distribution Operator I
Forestry (Louisiana Forestry Association)	Water Distribution Operator I

*Aligned to the pathway.
**Credential is only available to students with disabilities as indicated by a current IEP.

UNIVERSAL DOCUMENTS

INDUSTRY-BASED CERTIFICATION ACCELERATOR MATRIX   FAST FORWARD FUNDING   UNIVERSAL COURSE CODES

Course Code	Max Credits	Min Credits	Course Name
100303	1	1	ADVANCED NUTRITION AND FOOD (1 CREDIT)
100301	0.5	0.5	ADVANCED NUTRITION AND FOOD (1/2 CREDIT)
110590	1	0.5	ADVANCED TECHNICAL DRAFTING
110830	1	0.5	AEROSPACE ENGINEERING (1 CREDIT)
010444	1	0.5	AG CONST. TECH (1 CREDIT)
010364	1	0.5	AG LEADERSHIP (1 CREDIT)
010446	1	0.5	AG POWER EQUIPMENT (1 CREDIT)
010443	1	0.5	AGRIBUSINESS (1 CREDIT)
010343	0.5	0.5	AGRIBUSINESS (1/2 CREDIT)
010501	1	1	AGRICULTURAL EDUCATION ELECTIVE I (1 CREDIT)
010500	0.5	0.5	AGRICULTURAL EDUCATION ELECTIVE I (1/2 CREDIT)
010502	2	2	AGRICULTURAL EDUCATION ELECTIVE I (2 CREDITS)
010503	3	1.5	AGRICULTURAL EDUCATION ELECTIVE I (3 CREDITS)
010511	1	1	AGRICULTURAL EDUCATION ELECTIVE II (1 CREDIT)
010510	0.5	0.5	AGRICULTURAL EDUCATION ELECTIVE II (1/2 CREDIT)
010512	2	2	AGRICULTURAL EDUCATION ELECTIVE II (2 CREDITS)
010513	3	1.5	AGRICULTURAL EDUCATION ELECTIVE II (3 CREDITS)
010404	3	1.5	AGRISCIENCE ELECT I (3 CREDITS)
010412	1	1	AGRISCIENCE ELECT II (1 CREDIT)
010411	0.5	0.5	AGRISCIENCE ELECT II (1/2 CREDITS)
010413	2	2	AGRISCIENCE ELECT II (2 CREDITS)
010414	3	1.5	AGRISCIENCE ELECT II (3 CREDITS)
010402	1	1	AGRISCIENCE ELECTIVE
010401	0.5	0.5	AGRISCIENCE ELECTIVE I (1/2 CREDIT)
010403	2	2	AGRISCIENCE ELECTIVE I (2 CREDITS)
010301	1	1	AGRISCIENCE I
010302	1	0.5	AGRISCIENCE II
010303	1	0.5	AGRISCIENCE III
010304	1	0.5	AGRISCIENCE IV
010344	0.5	0.5	AGRISCIENCE-CONSTRUCTION (1/2 CREDIT)
010354	0.5	0.5	AGRISCIENCE-LEADERSHIP DEVELOPMENT (1/2 CREDIT)
010347	0.5	0.5	ANIMAL SCIENCE (1/2 CREDIT)
220310	1	0.5	AP HUMAN GEOGRAPHY
313100	1	1	AWS WELDING I (1 credit)
313099	0.5	0.5	AWS WELDING I (1/2 CREDIT)
313102	2	2	AWS WELDING I (2 credits)
313103	3	1.5	AWS WELDING I (3 credits)
313105	1	1	AWS WELDING II (1 credit)
313106	2	2	AWS WELDING II (2 credits)
313107	3	1.5	AWS WELDING II (3 credits)
310400	1	0.5	BASIC ELECTRICITY I (1 CREDIT)
310402	2	2	BASIC ELECTRICITY I (2 CREDITS)
310403	3	1.5	BASIC ELECTRICITY I (3 CREDITS)
110560	1	0.5	BASIC TECHNICAL DRAFTING
010356	1	0.5	BIOTECHNOLOGY in AGRISCIENCE (1 credit)
040307	1	0.5	Business Math
010380	0.5	0.5	CANINE CARE & TRAINING (1/2 CREDIT)
010331	1	0.5	CAREER READINESS AGRISCIENCE AGRIBUSINESS NATURAL RESOURCES
310600	1	0.5	CARPENTRY I (1 CREDIT)
310602	2	2	CARPENTRY I (2 CREDITS)
310603	3	1.5	CARPENTRY I (3 CREDITS)
310605	1	0.5	CARPENTRY II (1 CREDIT)

310612	2	2	CARPENTRY II (2 CREDITS)
310613	3	1.5	CARPENTRY II (3 CREDITS)
010475	1	0.5	CASE (CURRICULUM for AGRI and SC ED) ANIMAL SCIENCE (1 CR)
010474	1	0.5	CASE (CURRICULUM for AGRI and SC ED) PLANT SCIENCE (1 CR)
010332	1	0.5	CASE: FOOD SCIENCE AND SAFETY
010333	1	0.5	CASE: INTRODUCTION TO AGRISCIENCE, FOOD, & NATURAL RESOURCES
080058	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Millwright
080058	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Millwright
080054	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Welding
080054	3	1	CDF-Qualifying Pre-Apprenticeship I: CITF Welding
080051	3	1	CDF-Qualifying Pre-Apprenticeship II: CITF Carpentry
080051	3	1	CDF-Qualifying Pre-Apprenticeship II: CITF Carpentry
080055	3	1	CDF-Qualifying Pre-Apprenticeship II: CITF Welding
080055	3	1	CDF-Qualifying Pre-Apprenticeship II: CITF Welding
150401	1	0.5	CHEMISTRY
150413	1	0.5	Chemistry I: DE - CCEM 1013 General Chemistry Survey I
150414	1	0.5	Chemistry I: DE - CCEM 1103 Chemistry I
150415	1	0.5	Chemistry I: DE - CCEM 1123 Chemistry I (Sci Majors)
150412	1	0.5	Chemistry I: Gifted
150400	1	0.5	Chemistry I: Honors
110570	1	0.5	CMAD Drafting
110571	2	2	CMAD Drafting (2 credit)
110572	3	1.5	CMAD Drafting (3 credit)
312095	1	0.5	Comparative Anatomy and Physiology (LSU Partnership)
040220	1	0.5	COMPUTER TECHNOLOGY LITERACY
010323	3	1.5	COOPERATIVE AGRISCIENCE EDUCATION I (3 CREDITS)
010325	3	1.5	COOPERATIVE AGRISCIENCE EDUCATION II (3 CREDITS)
080800	1	0.5	DIGITAL MEDIA I (1 CREDIT)
080802	2	2	DIGITAL MEDIA I (2 CREDITS)
080803	3	1.5	DIGITAL MEDIA I (3 CREDITS)
010430	1	0.5	ENVIRON STUDIES in AGRISCIENCE (1 CREDIT)
150310	1	0.5	ENVIRONMENTAL SCIENCE
150311	1	0.5	Environmental Science: AP Environmental Science
150914	1	0.5	Environmental Science: DE - CEVS 1103 Environmental Science
150913	1	0.5	Environmental Science: Gifted
150328	1	0.5	Environmental Science: Honors
010359	1	0.5	EQUINE SCIENCE (1 CREDIT)
010349	0.5	0.5	EQUINE SCIENCE (1/2 CREDIT)
010460	1	0.5	FLORISTRY (1 CREDIT)
155040	1	0.5	FOOD SCIENCE
010361	1	1	FORESTRY (1 CREDIT)
010351	0.5	0.5	FORESTRY (1/2 CREDIT)
310631	1	0.5	Fundamentals of Industrial Scaffolding (1 Credit)
310632	2	2	Fundamentals of Industrial Scaffolding (2 Credits)
110010			GENERAL TECHNOLOGY EDUCATION
010103	1	0.5	GIS Entry Level 1
010104	1	0.5	GIS Entry Level 2
010452	1	1	HORTICULTURE (1 CREDIT)
010352	0.5	0.5	HORTICULTURE I (1/2 CREDIT)
090811	1	0.5	Intro to Biomedical Sciences (LSU Partnership)
061141	1	0.5	Intro to Computational Thinking
061140	1	0.5	INTRO TO COMPUTATIONAL THINKING FOR STEM (LSU PARTNERSHIP)
312092	1	0.5	Intro to History of Water Management
110801	1	0.5	INTRODUCTION TO ENGINEERING DESIGN (LSU PARTNERSHIP)

311922	1	0.5	Introduction to Hazardous Materials
110795	1	0.5	Introduction to Remote Controlled Vehicle Technologies
080818	1	0.5	Introduction to Social Media
312090	1	0.5	Louisiana Wetlands Ecology
010330	1	0.5	MEAT PROCESSING (1 CREDIT)
010601	1	0.5	NCCER CARPENTRY IN AGRISCIENCE (1 CREDIT)
010602	2	2	NCCER CARPENTRY IN AGRISCIENCE (2 CREDITS)
010603	3	1.5	NCCER CARPENTRY IN AGRISCIENCE (3 CREDITS)
010604	1	0.5	NCCER Carpentry in Agriscience II (1 credit)
010605	2	2	NCCER Carpentry in Agriscience II (2 credit)
010606	3	1.5	NCCER Carpentry in Agriscience II (3 credit)
010701	1	0.5	NCCER ELECTRICAL IN AGRISCIENCE (1 CREDIT)
010702	2	2	NCCER ELECTRICAL IN AGRISCIENCE (2 CREDITS)
010703	3	1.5	NCCER ELECTRICAL IN AGRISCIENCE (3 CREDITS)
010704	1	0.5	NCCER Electrical in Agriscience II (1CR)
010705	1	0.5	NCCER Electrical in Agriscience II (2CR)
010706	1	0.5	NCCER Electrical in Agriscience II (3CR)
010801	1	0.5	NCCER PIPEFITTING IN AGRISCIENCE (1 CREDIT)
010802	2	2	NCCER PIPEFITTING IN AGRISCIENCE (2 CREDITS)
010803	3	1.5	NCCER PIPEFITTING IN AGRISCIENCE (3 CREDITS)
010804	1	0.5	NCCER Pipefitting in Agriscience II (1 credit)
010805	2	2	NCCER Pipefitting in Agriscience II (2 credit)
010806	3	1.5	NCCER Pipefitting in Agriscience II (3 credit)
010901	1	0.5	NCCER WELDING IN AGRISCIENCE (1 CREDIT)
010902	2	2	NCCER WELDING IN AGRISCIENCE (2 CREDITS)
010903	3	1.5	NCCER WELDING IN AGRISCIENCE (3 CREDITS)
010904	1	0.5	NCCER Welding in Agriscience II (1 credit)
010905	2	2	NCCER Welding in Agriscience II (2 credits)
010906	3	1.5	NCCER Welding in Agriscience II (3 credits)
313700	1	0.5	NCCER WELDING TECHNOLOGY I (1 CREDIT)
110741	1	0.5	NCCER WELDING TECHNOLOGY I (1 CREDIT)
110742	2	2	NCCER WELDING TECHNOLOGY I (2 CREDITS)
313702	2	2	NCCER WELDING TECHNOLOGY I (2 CREDITS)
110743	3	1.5	NCCER WELDING TECHNOLOGY I (3 CREDITS)
313703	3	1.5	NCCER WELDING TECHNOLOGY I (3 CREDITS)
110746	1	0.5	NCCER WELDING TECHNOLOGY II (1 CREDIT)
313705	1	0.5	NCCER WELDING TECHNOLOGY II (1 CREDIT)
313628	0.5	0.5	NCCER WELDING TECHNOLOGY II (1/2 CREDIT)
110747	2	2	NCCER WELDING TECHNOLOGY II (2 CREDITS)
313712	2	2	NCCER WELDING TECHNOLOGY II (2 CREDITS)
110748	3	1.5	NCCER WELDING TECHNOLOGY II (3 CREDITS)
313713	3	1.5	NCCER WELDING TECHNOLOGY II (3 CREDITS)
100302	1	1	NUTRITION AND FOOD (1 CREDIT)
100300	0.5	0.5	NUTRITION AND FOOD (1/2 CREDIT)
312300	1	0.5	OUTDOOR POWER EQUIPMENT TECHNICIAN I (1 CREDIT)
312302	2	2	OUTDOOR POWER EQUIPMENT TECHNICIAN I (2 CREDITS)
312303	3	1.5	OUTDOOR POWER EQUIPMENT TECHNICIAN I (3 CREDITS)
312305	1	0.5	OUTDOOR POWER EQUIPMENT TECHNICIAN II (1 CREDIT)
312312	2	2	OUTDOOR POWER EQUIPMENT TECHNICIAN II (2 CREDITS)
312313	3	1.5	OUTDOOR POWER EQUIPMENT TECHNICIAN II (3 CREDITS)
312320	1	0.5	OUTDOOR POWER EQUIPMENT TECHNICIAN III (1 CREDIT)
312321	2	2	OUTDOOR POWER EQUIPMENT TECHNICIAN III (2 CREDITS)
312322	3	1.5	OUTDOOR POWER EQUIPMENT TECHNICIAN III (3 CREDITS)
312330	1	0.5	OUTDOOR POWER EQUIPMENT TECHNICIAN IV (1 CREDIT)
312331	2	2	OUTDOOR POWER EQUIPMENT TECHNICIAN IV (2 CREDITS)

312332	3	1.5	OUTDOOR POWER EQUIPMENT TECHNICIAN IV (3 CREDITS)
312098	1	0.5	PLTW Environmental Sustainability
080109	1	0.5	PLTW Principles of Engineering
110330	1	0.5	POWER MECHANICS
080210	1	0.5	PRE-APPRENTICESHIP I (1 CREDIT)
080208	2	2	Pre-Apprenticeship I (2 Credits)
080211	1	0.5	Pre-Apprenticeship II (1 Credit)
080209	2	2	PRE-APPRENTICESHIP II (2 CREDITS)
110810	1	0.5	PRINCIPLES OF ENGINEERING (1 CREDIT)
110811	2	2	PRINCIPLES OF ENGINEERING (2 CREDITS)
110864	1	0.5	PRINCIPLES OF ENGINEERING (LSU PARTNERSHIP)
110796	1	0.5	Remote Controlled Vehicle Technologies (1 credit)
010375	1	0.5	SMALL ANIMAL CARE & MANAGEMENT (1 CREDIT)
010365	0.5	0.5	SMALL ANIMAL CARE AND MANAGEMENT (1/2 CREDIT)
010346	0.5	0.5	SMALL ENGINES (APPLICATIONS) (1/2 CREDIT)
010390	1	0.5	VETERINARY ASSISTANT (1 CREDIT)
010391	1	0.5	VETERINARY ASSISTANT II (1 CREDIT)
110502	1	0.5	Water Distribution Operator DCC
110500	1	0.5	Water Production Operator DCC
110501	1	0.5	Water Treatment Operator DCC