JUMP START! 2.0 Pathway Brief

AGRICULTURE, FOOD & NATURAL RESOURCES

For incoming freshmen 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 of 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

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)*
Meat Processing	Geographic Information System - Entry Level Technician Certification	Forestry (Louisiana Forestry Association)
Agricultural Career Development and Agricultural Leadership Development	FAA Part 107: Small Unmanned Aircraft Operations	Water Production Operator I, Water Treatment Operator I, AND Water Distribution Operator I
	Four Stroke Engine Technician	
	Louisiana Agritechnology (Louisiana Farm Bureau Federation)	
	Louisiana Department of Health, Office of Public Health-Engineering Services: • Water Production Operator I • Water Treatment Operator I • Water Distribution Operator I	

**Aligned to pathway.*

K16 PATHWAY ALIGNMENT

UNIVERSAL DOCUMENTS

CDF ELIGIBLE COURSES • **JUMP START FUNDING** • **UNIVERSAL COURSE CODES**

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Nutrition and Food	100301	100303		
Advanced Technical Drafting		110590		
Aerospace Engineering		110830		
Ag Const. Tech		010444		
Ag Leadership		010364		
Ag Power Equipment		010446		
Agribusiness	010343	010443		
Agricultural Education Elective I	010500	010501	010502	010503
Agricultural Education Elective II	010510	010511	010512	010513
Agriscience Elective I	010401	010402	010403	010404
Agriscience Elective II	010411	010412	010413	010414
Agriscience II		010302		
Agriscience III		010303		
Agriscience IV		010304		
Agriscience-Construction	010344			
Agriscience-Leadership Development	010354			
Animal Science	010347			
AP Human Geography		220310		
AWS Welding I	313099	313100	313102	313103
AWS Welding II		313105	313106	313107
Basic Electricity I		310400	310402	310403
Business Math		040307		
Basic Technical Drafting		110560		
Biotechnology In Agriscience		010356		
Canine Care & Training	010380			
Career Readiness Agriscience Agribusiness Natural Resources**		010331		
Carpentry I		310600	310602	310603
Carpentry II		310605	310612	310613
CASE (Curriculum For Agri and Sc Ed) Animal Science		010475		
CASE (Curriculum For Agri and Sc Ed) Plant Science		010474		
CASE: Food Science and Safety		010332		
CASE: Introduction to Agriscience, Food, & Natural Resources		010333		
Chemistry		150401		
CMAD Drafting		110570	110571	110572
Comparative Anatomy and Physiology (LSU Partnership)		312095		
Computer Technology Literacy		040220		
Cooperative Agriscience Education I				010323
Cooperative Agriscience Education II				010325
Digital Media I		080800	080802	080803
Environ Studies in Agriscience		010430		
Environmental Science		150310		
Environmental Science: AP Environmental Science		150311		
Environmental Science: DE - CEVS 1103 Environmental Science		150914		
Equine Science	010349	010359		
Floristry		010460		
Food Science		155040		
Forestry	010351	010361		
Fundamentals of Industrial Scaffolding		310631	310632	

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
Horticulture I	010352	010452		
Introduction to Biomedical Sciences (LSU Partnership)		090811		
Introduction to Computational Thinking		061141		
Introduction to Computational Thinking for STEM (LSU Partnership)		061140		
Introduction to Engineering Design (LSU Partnership)		110801		
Introduction to Hazardous Materials		311922		
Introduction to History of Water Management		312092		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Louisiana Wetlands Ecology		312090		
Meat Processing		010330		
NCCER Carpentry in Agriscience I		010601	010602	010603
NCCER Carpentry in Agriscience II		010604	010605	010606
NCCER Electrical in Agriscience I		010701	010702	010703
NCCER Electrical in Agriscience II		010704	010705	010706
NCCER Pipefitting in Agriscience I		010801	010802	010803
NCCER Pipefitting in Agriscience II		010804	010805	010806
NCCER Welding in Agriscience I		010901	010902	010903
NCCER Welding in Agriscience II		010904	010905	010906
NCCER Welding Technology I		110741 OR 313700	110742 OR 313702	110743 OR 313703
NCCER Welding Technology II	313628	110746 OR 313705	110747 OR 313712	110748 OR 313713
Nutrition and Food	100300	100302		
Outdoor Power Equipment Technician I		312300	312302	312303
Outdoor Power Equipment Technician II		312305	312312	312313
Outdoor Power Equipment Technician III		312320	312321	312322
Outdoor Power Equipment Technician IV		312330	312331	312332
PLTW Environmental Sustainability		312098		
PLTW Principles of Engineering		080109		
Power Mechanics		110330		
Pre-Apprenticeship I		080210	080208	
Pre-Apprenticeship II		080211	080209	
Principles of Engineering		110810	110811	
Principles of Engineering (LSU Partnership)		110864		
Small Animal Care & Management	010365	010375		
Small Engines (Applications)	010346			
Veterinary Assistant		010390		
Veterinary Assistant II		010391		
Water Distribution Operator		110502		
Water Production Operator		110500		
Water Treatment Operator		110501		

***Can be used to fulfill the career readiness course requirement for this pathway only.*