

**AGRICULTURE, FOOD & NATURAL RESOURCES**

**Agriculture Leadership in Animal Production (N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
01.41200 Agribusiness Management and Leadership  
**Capstone Experience: WBL Internship**

**Animal/Mechanical Systems (N)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.43200 Agricultural Animal Production and Mgt  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics Systems Pathway (L)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42200 Agricultural Mechanics Technology II  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics & Electrical Systems Pathway (L)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42600 Agriculture Electricity and Electric Controls  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics/Metal Fabrication Pathway (L, N)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42400 Agricultural Metals Fabrication  
**Capstone Experience: WBL Internship**

**Food Animal Systems (N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
01.43200 Agricultural Animal Production and Mgt- FY23  
**Capstone Experience: WBL Internship**

**Forest Mechanical Systems Pathway (L)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
03.45100 Forest Science  
**Capstone Experience: WBL Internship**

**Horticulture & Animal Systems Pathway (E)**  
02.47100 Basic Agricultural Science  
01.46100 General Horticulture and Plant Science ^  
02.42100 Animal Science/Biotechnology ^  
**Capstone Experience: WBL Internship**

**Plant & Floral Design Systems Pathway (E)**  
02.47100 Basic Agricultural Science  
01.46100 General Horticulture and Plant Science ^  
02.46600 Floral Design & Management - FY23  
**Capstone Experience: WBL Internship**

**Veterinary Science Pathway (E, N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
02.42400 Veterinary Science - FY24  
**Capstone Experience: WBL Internship**

**ARCHITECTURE & CONSTRUCTION**

**Carpentry Pathway (C, J, L, W)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
46.55000 Carpentry I  
**Capstone Experience: WBL Internship**

**Electrical Pathway (C, J, W)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
46.56000 Electrical I  
**Capstone Experience: WBL Internship**

**Plumbing Pathway (J)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
45.58000 Plumbing I  
**Capstone Experience: WBL Internship**



Virtual POC students must provide their own transportation to their zoned home school or to Lanier College and Career Academy to take advantage of specific pathway CTAE courses listed on this chart.

**ARCHITECTURE & CONSTRUCTION**

**HVACR Electrical Pathway (L)**  
46.54500 Industry Fundamentals & Occupational Safety  
47.41400 Introduction to HVACR Systems  
47.41600 Low Voltage Electrical  
**Capstone Experience: WBL Internship**

**Heating, Vent, Air Conditioning & Refrigeration (L)**  
46.54500 Industry Fundamentals & Occupational Safety  
47.41400 Introduction to HVACR Systems  
47.41500 Heating, Ventilation, Air Cond, & Refrigeration  
**Capstone Experience: WBL Internship**

**ARTS, AV TECHNOLOGY & COMMUNICATIONS**

**Animation and Digital Media Pathway (CB)**  
48.42100 Introduction to Digital Media  
48.42200 Principles and Concepts of Animation  
48.42300 Advanced Animation, Game and app Design  
**Capstone Experience: WBL Internship**

**Audio-Video Technology/Film I Pathway (C, J, W)**  
10.51810 Audio-Video Technology Film I  
10.51910 Audio-Video Tech Film II  
10.52010 Audio-Video Tech Film III ^  
**Capstone Experience: WBL Internship**

**Audio-Video Technology & Film II Pathway (C, J, W)**  
10.51810 Audio-Video Technology Film I  
10.51910 Audio-Video Tech Film II  
10.51410 Broadcast Video Applications ^  
**Capstone Experience: WBL Internship**

**GRAPHIC COMMUNICATIONS PATHWAY (E, F, J, W) ^**

48.56100 Introduction to Graphics and Design  
48.56200 Graphic Design and Production  
48.57000 Adv Graphic Output Processes  
**Capstone Experience: WBL Internship**

**Graphic Design Pathway (C, E, F, J, W) ^**  
48.56100 Introduction to Graphics and Design  
48.56200 Graphic Design and Production  
48.52800 Advanced Graphic Design  
**Capstone Experience: WBL Internship**

**GOVERNMENT & PUBLIC ADMINISTRATION**

**JROTC Naval Science Pathway (E)**  
28.02100 Cadet Field Manual  
28.02200 Introduction to NJROTC  
28.02300 Maritime History  
**Capstone Experience: WBL Internship**

**HEALTH SCIENCE**

**Allied Health & Medicine Pathway (VP) ^**  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare «  
25.43700 Allied Health & Medicine  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Pharmacy Pathway (VP) ^**  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare «  
25.45300 Pharmacy Operations & Fundamentals  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Public Health (VP)**  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare «  
25.45200 Applications of Public Health  
**Capstone Experience: WBL Internship**

**HOSPITALITY & TOURISM**

**Culinary Arts Pathway (L) ^**  
20.53100 Introduction to Culinary Arts  
20.53210 Culinary Arts I  
20.53310 Culinary Arts II  
**Capstone Experience: WBL Internship**

**HOSPITALITY & TOURISM**

**Hospitality, Recreation & Tourism (VP)**  
08.47400 Marketing Principles  
08.45300 Hospitality, Recreation & Tourism Essentials ^  
08.45400 Hospitality, Recreation & Tourism Management ^  
**Capstone Experience: WBL Internship**

**HUMAN SERVICES**

**Personal Care Services-Cosmetology Pathway (L)**  
12.54400 Intro to Personal Care Services  
12.41000 Cosmetology Services II  
12.41100 Cosmetology Services III  
**Capstone Experience: WBL Internship**

**INFORMATION TECHNOLOGY**

**Computer Science Pathway (VP) ^**  
11.41500 Introduction to Digital Technology OR  
11.44600 Introduction to Software Technology  
11.47100 Computer Science Principles ^ ~ OR  
11.01900 AP Computer Science Principles ^ ~  
11.01600 AP Computer Science A ^ ~  
**Capstone Experience: WBL Internship**

**Game Design Pathway (VP) ^**  
11.41500 Introduction to Digital Technology OR  
11.44600 Introduction to Software Technology  
11.47100 Computer Science Principles ^ ~ OR  
11.01900 AP Computer Science Principles ^ ~  
11.42900 Game Design: Animation and Simulation ^ ~  
**Capstone Experience: WBL Internship**

**Programming Pathway (VP) ^**  
11.41500 Introduction to Digital Technology OR  
11.44600 Introduction to Software Technology  
11.47100 Computer Science Principles ^ ~ OR  
11.01900 AP Computer Science Principles ^ ~  
11.47200 Program, Games, Apps & Society ^ ~  
**Capstone Experience: WBL Internship**

**MANUFACTURING**

**Machine Operations Pathway (N)**  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.59100 Machining Operations I  
**Capstone Experience: WBL Internship**

**Manufacturing Pathway (W)**  
21.44100 Foundations of Manufacturing & Materials Science  
21.44500 Robotics and Automated Systems  
21.44400 Production Enterprises  
**Capstone Experience: WBL Internship**

**Sheet Metal Pathway (CB, F)**  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.58200 Sheet Metal I  
**Capstone Experience: WBL Internship**

**Welding Pathway (CB, F, N)**  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.55100 Welding I  
**Capstone Experience: WBL Internship**

**SCIENCE, TECH, ENGINEERING & MATHEMATICS**

**Engineering & Technology Pathway (CB, F, N) ^**  
21.42500 Foundations of Engineering/Technology  
21.47100 Engineering Concepts  
21.47200 Engineering Applications  
**Capstone Experience: WBL Internship**

**Engineering Drafting & Design Pathway (CB, F)**  
48.54100 Intro to Drafting & Design  
48.54200 Survey of Engineering Graphics  
48.54300 3D Modeling and Analysis  
**Capstone Experience: WBL Internship**

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

**General Automotive Technology Pathway (C, E)**  
47.45000 Automotive Technologies 1  
47.45100 Automotive Technologies 2  
47.45200 Automotive Technologies 3  
**Capstone Experience: WBL Internship**

**SCHOOL LOCATIONS**  
C = Chestatee  
CB = Cherokee Bluff  
E = East Hall  
F = Flowery Branch  
J = Johnson  
N = North Hall  
W = West Hall  
L = Lanier College Career Academy  
VP = Virtual Program of Choice

**PATHWAY REQUIREMENTS**  
\* To fulfill the state pathway requirements, students must complete the three courses shown in the pathway and take the COV (Credentials of Value assessment) where available. If successful, students will earn an industry credential.  
^ Honors Pathway Available

**CAPSTONE EXPERIENCE FOR ALL PATHWAYS**  
Work-Based Learning (WBL) internship opportunities are available in ALL career cluster areas. Please see your school's WBL Coordinator for additional information.