

Cluster - Agriculture, Food and Natural Resources
Pathway – Power, Structural and Technical Systems
Program of Study – Power, Structural & Technical Systems

Sample Plan of Study

| | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|--|---|---|---|
| Smart Core | English I or Pre-AP | English II or Pre-AP | English III or AP | English IV or AP |
| | Algebra I or Geometry | Geometry or Algebra II | Algebra II or Trigonometry Pre- AP Calculus | AP Calculus College Algebra AP Statistics |
| | Physical Science | Biology Pre-AP Chemistry Applied Biology/Chemistry | Chemistry Physics Principles of Technology | AP Biology AP Chemistry AP Physics Earth & Space Science |
| | Civics | World History | US History | Economics |
| Foundation Courses Career Orientation Computer Technology Keyboarding Graduation Requirements English 4 units Math 4 units Science 3 units Social Studies 3 units Fine Arts ½ unit Health and Safety ½ unit Oral Communication ½ unit Physical Education ½ unit Career Focus 6 units Arkansas Challenge Foreign Language 2 units | Program of Study Support Courses EAST/Workforce Technology Internship Workplace Readiness Support Courses Foreign Language Word Processing or Computer Business Applications (CBA) Extended Learning Opportunities Future Farmers of America Supervised Ag Experience Jobs for Ark Grads (JAG) Job Shadowing | Power, Structural & Technical Systems Core Courses Ag Science and Technology Ag Mechanics Power, Structural & Technical Systems Electives Suggested: Ag Apprenticeship/Work Based Learning Ag Electricity Ag Metals I & II Ag Power Systems Ag Structural Systems I & II Small Engine Technology *Any other Agriculture Course Offering Power, Structural & Technical Industry Certifications Arkansas Career Readiness Certificate (CRC) Related Programs of Study Agribusiness Systems Animal Systems Plant Systems (Biological) Plant Systems (Horticulture) Natural Resources Systems/Environmental Service Systems | | |
| Postsecondary Opportunities | | | | |
| Major | Postsecondary School | | Certificate/Degree Program | |
| Agricultural Equipment Tech | ASU Beebe | | Associate's | |
| Agricultural Technology | UA Monticello | | Certificate | |
| Power Equipment Maintenance | OTC Malvern | | Certificate | |
| Small Engine Mechanic | UA Monticello | | Certificate | |
| Small Engine Repair | CCCUA DeQueen | | Certificate | |
| Small Engine Technology | PTC North Little Rock | | Certificate | |
| Tractor & Trailer Service | PTC North Little Rock | | Certificate | |
| Agricultural Mechanization | UA Fayetteville | | Bachelor's | |
| Farm Equipment Mechanics | PCCUA Helena | | Certificate, Associate's | |