



YOUR FUTURE STARTS HERE

Signature Academies offer an innovative and unique approach to education that is designed to increase student engagement and foster in-depth learning within specific fields of interest. Each academy offers unique courses and specialized learning opportunities, designed to equip students with practical knowledge and skills. Successful completion will allow students to enter the workforce immediately or continue their education at a post-secondary institution.





ADVANCED MANUFACTURING

Develops students' skills and knowledge in the electrical program of manufacturing, providing students with the knowledge and skills necessary to prepare them for careers in robotics, industrial maintenance, manufacturing, electronics, and precision machining. Students will participate in coordinated and simulated workplace learning experiences. Credentials may be obtained.

Business Partners/Colleges

- Birmingham Fastener
- Alabama Power
- Lawson State Community College
- Jefferson State Community College

Career Opportunities

- Industrial Machine Mechanic (\$44,000)
- Maintenance & Repair Worker (\$41,000)
- Mechatronic Engineer (\$70,189)
- HVAC (\$40,000)
- Electrician (\$46,000)

Courses Offered/Prerequisites

- Arch/Const/Manufacturing
- NCCER Indust/Maint E&I 1
- NCCER Indust/Maint E&I 2
- NCCER Indust/Maint E&I 3





AGRICULTURAL SCIENCE

Provides students with classroom and laboratory activities covering five pathways- Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Students will gain knowledge in basic safety, construction math, hand tools, power tools, construction drawings, basic rigging, communication skills, employability skills, and material handling.

Business Partners/Colleges

- Agri-AFC LLC
- HOAR Construction
- Spire (formerly Alagasco)
- Lawson State Community College

Career Opportunities

- UDA Inspector (\$51,527)
- Turfgrass Management (\$54,527)
- Agricultural Sales Representative (\$57,972)

Courses Offered/Prerequisites

- Fundamentals of Agriscience
- Intermediate Agriscience
- Advanced Agriscience
- Applied Agriscience





AUTOMOTIVE TECHNOLOGY

GARDENDALE
HIGH SCHOOL



AUTOMOTIVE TECHNOLOGY

Provides students with real-world, hands-on activities that will help them gain knowledge and credentials necessary for an entry-level position in automotive repair or as preparation for them to continue their education in college. Preparation is provided in three NATEF accredited program levels. Students will be eligible to receive ASE workplace credentials.

Business Partners/Colleges

- Collision Repair
- NAPA Auto
- KAMTEK
- Joe Hudson Collision

Career Opportunities

- Auto Service Technician (\$45,000)
- Bus & Truck Mechanic (\$47,000)
- AC Tech - Body Technician (\$60,000)

Courses Offered/Prerequisites

- Maint & Light Repair A
- Maint & Light Repair B
- Maint & Light Repair C
- Maint & Light Repair D
- Transportation/Dist/Log
- Paint & Refinishing I
- Paint & Refinishing II
- Paint & Refinishing III





BIOMEDICAL SCIENCE

Exposes students to careers in the field of medical and health services. Students will participate in Project Lead the Way, a science program curriculum that provides students with the opportunity to investigate the roles of biomedical professionals in the areas of human medicine, physiology, genetics, microbiology, and public health.

Business Partners/Colleges

- UAB School of Health Professions
- St. Vincent's Health
- Jefferson State Community College

Career Opportunities

- Biomed Technician (\$49,000)
- Biomedical Research(\$93,000)
- Medical Imaging Professional (\$61,000)
- Biomaterials Engineer (\$88,550)

Courses Offered/Prerequisites

- First Year Prerequisite courses
Required at home school -
Foundations of Science & Biology
- Principles of Biomedical Sciences
- Human Body Systems
- Medical Interventions





BUILDING CONSTRUCTION

Introduces students to the world of construction, leading to careers in building construction, welding, HVAC, and masonry. Provides students with basic knowledge and skills within a safe and appropriate setting for student exploration and achievement and simulates the workplace setting, enhancing students' ability to adapt to an ever-changing job market. NCCER and CAST credentials may be obtained.

Business Partners/Colleges

- Alabama Power
- Lawson State Community College
- Jefferson State Community College
- Brasfield & Gorrie

Career Opportunities

- HVAC (\$45,000)
- Electrician (\$46,000)
- Electrical Power-Line
Installer/Repairer (\$82,000)
- Carpenters (\$43,000)

Courses Offered/Prerequisites

- Arch/Const/Manufacturing
- NCCER Build/Const 1 Framing
- NCCER Build/Const 2 SitePrep
- NCCER Build/Const 3 Finishing





ENGINEERING

Develops students' skills and knowledge to understand the engineering design process through research and applications.

Business Partners/Colleges

- Bevill State Community College
- University of Alabama

Career Opportunities

- Electrical Engineer (\$95,000)
- Materials Engineer (\$94,000)

Courses Offered/Prerequisites

- Engineering Essentials
- Intro to Engineering Design
- Principles of Engineering
- Engineering Design and Development





ARTS - MUSIC TECHNOLOGY

The Academy of Music & Technology will build students' essential knowledge of the music industry with a special emphasis on composition and the music industry. Using state-of-the-art software, students will learn and practice the core skills needed to produce podcasts, marketing content, and music of all kinds.

Courses Offered/Prerequisites

First Year

- Audio Technology I

Second Year

- Audio Technology II

Third Year

- Music Production and Engineering I

Fourth Year

- Music Production and Engineering II

