





**FUTURE READY
INSTITUTES**
of Hamilton County



Institute of Integrative Agricultural Sciences and Natural Resources



The Institute of Agricultural Sciences at Hixson High School is a comprehensive agriculture education program that merges academic knowledge with the application of real-world skills. This approach is accomplished through a hands-on learning environment. On campus, there are three programs of study within this institute: Veterinary Science, Food Science, and Natural Resources. Students have access to two modern greenhouses with solar panel array, commercial-scale hydroponic systems, aquaculture tanks, and animal vet assistant training area. Students in this institute also benefit from a partnership with the Tennessee Wildlife Resources Agency where students assist with the management of state lands adjacent to the school campus. Students studying agriculture at Hixson High are well positioned to pursue additional studies in science, engineering, production agriculture, ornamental landscaping, and natural resource management, as well as, many highly sought-after technical careers.



"Overall I've had a very pleasant experience, teachers are helpful and I feel comfortable and accepted here" -Tyler

"I enjoy that teachers are helpful and the institute is eventful because there is always something going on in the classroom or with FFA" -Ashton



Hixson High School

Career Technical Education Pathways:

Veterinary and Animal Science- Veterinary and Animal Science is designed for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions.

Food Science- Food Science is designed to introduce students to the growing fields of food science and technology. Upon completion of this course, students will be equipped with the technical knowledge and skills necessary for further education and careers in food science.

Environmental and Natural Resource Management- Environmental and Natural Resource Management is designed for students interested in learning more about becoming good stewards of our environment and natural resources, as an environmental scientist, conservationist, forester, or wildlife manager.

Student schedules will consist of both Future Ready Institute classes as well as the opportunity to take a variety of classes offered by the particular high school in order to fulfill all graduation requirements. This is the 4 year plan for the student's institute classes only. *DE= Dual Enrollment *IC= Industry Certification *SDC= Statewide Dual Credit

FRI Pathway(s)	Year 1	Year 2	Year 3	Year 4
CTE	Agriscience <i>IC: OSHA 10</i>	Vet Tech 1	Vet Tech 2 <i>IC: OSHA 30 General Industry</i>	<i>DE: Veterinary & Animal Science</i> <i>IC: TN Specific Industry Certification Animal Science</i>
		Food Production I	Food Science and Safety <i>IC: OSHA 30 General Industry</i>	<i>DE: Food Science</i>
		Principles of Plant Science and Hydroculture	<i>SDC: Introduction to Plant Science</i> <i>IC: OSHA 30 General Industry</i>	<i>DE: Horticulture Science</i> <i>IC: TN Specific Industry Certification Horticulture -and/or- Commercial Pesticide Certification</i>
Core Classes	English 9 Algebra 1 -or- Geometry	English 10 Biology	English 11 Chemistry	English 12 Senior Level Math

Hixson High School

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Hixson, TN 37343
(423)478-4800

Principal- Mr. Lee Sims
FRI Lead Administrator-

Mr. Rashaad Williams
FRI Lead Teacher- Joyce Perdue
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FRI Opportunitites:

- Field Experiences
- Regional and National Competitions
- Clinicals/Internships
- Service Learning
- Regional and National Competitions

Partners

