



## Our Program

The Agriscience Magnet Program (AMP) is a unique experience within the North East ISD for high school students who have an interest in studying the many facets of agriculture science and participating in the FFA (Future Farmers of America) youth leadership organization. Using an integrated model of education, classroom instruction is combined with hands-on experience in specialized laboratories to prepare students to achieve success in the food, fiber, and natural resource industries. The AMP is located on 20 acres of the James Madison High School campus and is a model for urban agriculture education in the state and nation.

## Our Mission

The mission of the AMP is to develop the potential of students for premier leadership, personal growth, and career success through agriculture education.

## Our Pathways

The AMP is not a "one-size fits all" study in agriculture. To the contrary, the AMP offers six pathways of study with more than 25 agricultural courses available for students. The pathways include Agribusiness, Applied Agricultural Engineering, Animal Science, Environmental and Natural Resources, Food Science, and Plant Science.

## Our Students

The AMP is comprised of over 500 high school students with diverse backgrounds from all regions of North East ISD and surrounding school districts. Our students are not only active in the FFA, but many students participate in athletics, fine arts, spirit organizations, honor society, student government, ROTC, and more! While students are taking courses in their selected AMP pathway, they also take core and other elective courses on the James Madison HS campus. This provides students access to advanced academic opportunities (Honors, AP, and Dual Credit) and a large selection of elective courses to meet their goals.

## Career Focused

Through the AMP coursework and the FFA, students discover their talents and interests for lifelong success. Working with agriculture's

leading industries, universities, and leadership experts, the AMP identifies the business and character skills necessary for employee and entrepreneurial success and develops those skills in students. The opportunities for AMP students goes beyond traditional careers associated with agriculture. Students become food scientists, veterinarians, mechanical engineers, animal nutritionists, wildlife biologists, landscape designers, florists, public relations representatives, and agricultural lenders to name a few.

## College Ready

The AMP offers up to 21 hours of college credit to eligible students that are enrolled in Advanced Animal Science, Agribusiness Management and Marketing, Floral Design, Horticultural Sciences, and Wildlife, Fisheries and Ecology Management. This opportunity is made possible through a dual credit agreement with Palo Alto College that can award a student college credit hours while completing the AMP coursework.

## Doing to Learn

The AMP develops students' potential and helps them discover their talent through hands-on experience, which gives students the tools to achieve real-world success. Many former AMP students credit their current success directly to their studies in the AMP and participation in the FFA. The AMP offers a menu of options for students to learn by doing such as Leadership, Career, and Speaking Development Events, Supervised Agriculture Experiences, Agriscience Fair Competitions, Internships, Guide Dogs for the Blind Club, Archery Club, BBQ Cook-off Competitions, and other opportunities.

## Enrollment Process

To ensure that the AMP is a great fit for potential students, the AMP employs a performance-based enrollment policy. The following criteria are used to evaluate students: 1) career interest; 2) grades of a "C" average or better in core subjects; 3) satisfactory standardized test scores; 4) satisfactory attendance; and 5) satisfactory conduct. For more information on the enrollment process and to submit an application, please visit the following webpage: <http://www.JamesMadisonFFA.com>.



**The Home of  
James Madison**



## AGRIBUSINESS



Are you a natural leader? Do you enjoy coordinating people and activities to make sure things run smoothly? Careers in this pathway connect the business world with agriculture by determining how to effectively use resources for profit.

**\$94,515**

MEDIAN WAGE  
Agricultural  
Advertising  
& Promotions  
Manager

## ANIMAL SCIENCE

**\$93,496**

MEDIAN WAGE  
Veterinarians

If you enjoy working with and caring for animals of all sizes, you may find a match with an Animal Science career. This pathway includes opportunities to work directly with animals or work with products that come from animals.



## APPLIED AGRICULTURAL ENGINEERING



Do you enjoy working with equipment or designing new systems? Do you wonder how things work? If so, consider the Applied Ag Engineering pathway. Professionals in these fields apply knowledge of engineering, hydraulics, mechanics, welding, structures, etc.

**\$64,792**

MEDIAN WAGE  
Agricultural  
Engineers

## ENVIRONMENTAL & NATURAL RESOURCES

**\$86,757**

MEDIAN WAGE  
Environmental  
Engineers

If you enjoy working to make Earth a cleaner and healthier place or enjoy exploring the great outdoors, a career in Environmental Science may be ideal for you. Scientists, technicians, and engineers work to develop, maintain, and manage natural environments.



## FOOD SCIENCE



Do you like to play with your food? Careers in this pathway study the physical, biological, and chemical makeup of foods to improve food safety, create better processes, enhance the nutritional value and shelf-life of foods and even develop new flavors!

**\$62,171**

MEDIAN WAGE  
Food Production  
Supervisors

## PLANT SCIENCE

**\$54,662**

MEDIAN WAGE  
Soil and Plant  
Scientists

If you like gardening, plants, the science of how things grow, or enjoy designing and creating art, the Plant Science career pathway could be the best fit for you. People who work in this pathway apply biology to plants and vegetation in laboratories or in the field.



North East ISD Agriscience Magnet Program  
5005 Stahl Rd., San Antonio, TX 78247  
Director – Doak Stewart  
(210) 356-1517 or [dstewa1@neisd.net](mailto:dstewa1@neisd.net)  
[www.JamesMadisonFFA.com](http://www.JamesMadisonFFA.com)

