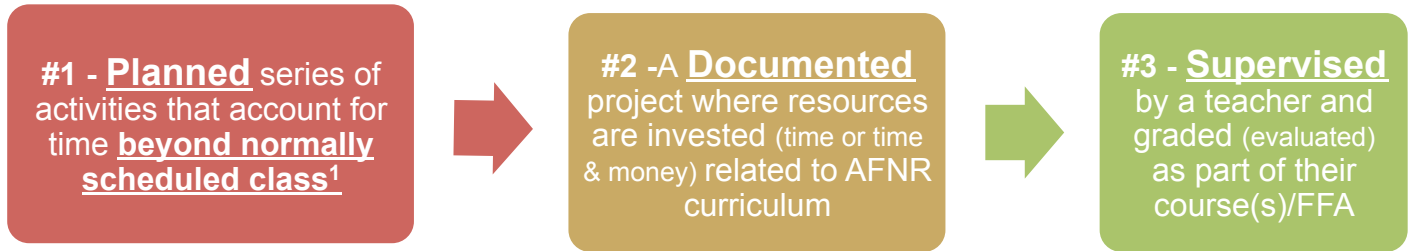


Guidelines for Supervised Agricultural Experience (SAE)

SAE, or experiential learning, is an essential component of the agriculture, food, and natural resources (AFNR) program and relates to all courses in agricultural education or the student's designated educational pathway. An SAE is comprised of three essential elements:



¹ Indicates all time in excess of the regular school day. Students enrolled in full-year, multiple credit courses may count practicum time beyond the first credit as SAE related. Students enrolled in one-credit classes may record time beyond scheduled class. Pursuant to subsection Texas 26.4(i)(3) of this policy such arrangements must be explained in the record book SAE plan.

A. Types of SAEs

Supervised Agricultural Experience (SAE) provides experiential learning activities that connect school-based learning to real-world situations and enhance career development.

Type & Summary	Project Examples (For illustration purposes only; not an exhaustive list)
Exploratory, Improvement or Supplemental: <ul style="list-style-type: none"> Foundation projects open to all students Typically relates to exploring areas of agriculture course topics/AFNR pathways Time is an invested resource 	<ul style="list-style-type: none"> ✓ Career exploration or job shadowing ✓ Career/Leadership Development Event (CDE) preparation ✓ Attending an educational event such as artificial insemination clinic or welding certification event ✓ Developing a community garden for an elementary school
Research: <ul style="list-style-type: none"> Applies the scientific method to areas related to agriculture course topics/AFNR Relates to research questions, previous research, and develops findings Time and potentially money are invested resources 	<ul style="list-style-type: none"> ✓ Using a school facility (directed school lab) to measure plant growth with varying light exposure ✓ Surveying students regarding their perceptions of biotechnology ✓ Analysis various feeding methods on a specific species of livestock ✓ Comparing hydraulic pressure of alternative fluids
Placement: <ul style="list-style-type: none"> Paid or unpaid work experience relating to agricultural course topics/AFNR pathways in a work experience or environment Money is earned in a paid work-based learning experience Time is an invested resource 	<ul style="list-style-type: none"> ✓ Working in a cooperative setting either in or out of school (beyond one credit of class time) ✓ Employment at a farm store, veterinary clinic, state or local government operation, or employment at a family agricultural operation ✓ Directed school laboratory such as a greenhouse, ag mechanics facility or meats lab.
Entrepreneurship: <ul style="list-style-type: none"> A project where revenues are projected to exceed cost in order to develop a profit Time & money are invested resources Must include financial risk by the student 	<ul style="list-style-type: none"> ✓ Starting/managing a livestock, grain, vegetable, or forage production business ✓ Starting/managing a lawn care business ✓ Starting/managing a wildlife/hunting guide service business ✓ Starting/managing a welding fabrication business

Note:

- ❖ Community service hours cannot be counted twice, for both FFA award and as an SAE activity. Related SAEs are possible, but SAE hours must apply to SAE essential elements and separately accounted.



- ❖ *Traditional SAE projects (livestock & mechanics) primarily intended for exhibition (shows/fairs) may represent skills recorded individually as part of an exploratory, unpaid placement or research SAE versus entrepreneurship projects.*

B. SAEs Relating to Agriculture, Food and Natural Resources (AFNR) Pathways

All SAE projects relate to agricultural educational pathways (additional details listed at educationalexcellence.tamu.edu), which include the following:

Agribusiness Systems	<ul style="list-style-type: none"> ✓ Management, marketing, finance and applications to agricultural enterprises ✓ Examples include a service business such as a consulting business, adding value and selling a product such as processed organic vegetables, employment related to business skills, researching the cost of production or new technologies or attending a related educational training
Animal Systems	<ul style="list-style-type: none"> ✓ Health, nutrition, genetics, management and processing, through the study of small animals, aquaculture, livestock, dairy, horses and/or poultry ✓ Examples include management of animals for sale or care, employment related to animal care, research related to animal feeding and care or attending a related educational training
Biotechnology Systems	<ul style="list-style-type: none"> ✓ Applied science for the solution of problems concerning living organisms ✓ Examples include employment for a seed dealer specializing in modified crop systems or a veterinarian specializing in enhancement of animal growth, or research comparing production systems to previous practices or attending a related educational training
Environmental Service Systems	<ul style="list-style-type: none"> ✓ Application of scientific principles, practices, and techniques to the management of environmental service systems ✓ Examples include environmental testing service business; employment related to water and/or wastewater management; research related to materials handling and storage or a related educational training
Food Products and Processing Systems	<ul style="list-style-type: none"> ✓ Application of scientific principles, practices, and techniques in the processing, storage and development of food products ✓ Examples include food testing service business; employment related to meat processing, dairy products, etc; research related food safety systems or a related educational training
Natural Resource Systems	<ul style="list-style-type: none"> ✓ The application of scientific principles and techniques to the management of natural resources ✓ Examples include a forestry management business; employment with a wildlife biologist, research alternative fuel production, or a related educational training
Plant Systems	<ul style="list-style-type: none"> ✓ The application of scientific principles and techniques to the production and management of plants ✓ Examples include plant growth projects such as vegetable or grain products for sale; related employment such as designing floral arrangements, researching plant growth with varying light, or a related educational training
Power, Structural and Technical Systems	<ul style="list-style-type: none"> ✓ The application of principles and techniques for the development and management of power, structural, and technical systems ✓ Examples include fabrication of products for sale; employment in a related business; research such as hydraulic unit capacity, or evaluating safety standards, or a related educational training

