

ANIMAL SYSTEMS 01.0100.40

Program Description, Coherent Sequence, and Certification Information

PROGRAM DESCRIPTION

If you're an animal lover, you may find your niche in an **Animal Systems** career. Some who choose this career pathway work directly with animals—they train, feed, water, exercise, bathe and groom their furry friends, as well as maintain and clean their cages. Professionals in this field may inspect and grade livestock food products, purchase livestock, or work in technical sales and marketing.

Some people in the **Animal Systems** career path work to develop better, more efficient ways of producing and processing meat, poultry, eggs, and dairy products. Others advise agriculture producers on how to upgrade animal housing facilities properly, lower mortality rates, handle waste matter, or increase production of animal products such as milk or eggs.

Employment opportunities in **Animal Systems** careers are increasing. Demand for food and fiber will continue to increase because of the growth in world population and demand for U.S. agricultural exports.

Employment of agricultural managers, farmworkers, graders, and sorters is projected to rise and in response to an increase in the demand for fish, there has been a steady growth in the field of aquaculture over the past 10 years. The opportunities for veterinarians and veterinary technicians are expected to continue to increase in the coming years, which make it a valuable career choice. Career opportunities may include: Livestock producer, Poultry farm manager, Livestock inspector, Veterinarian or veterinary technician, Zoo animal specialist, Equine rehabilitator, and Aquaculturalist.

High school agricultural education and biology courses will help you gain basic animal knowledge, and often, these courses will spark an interest in this industry. Other valuable experience can be gained through working at a veterinary clinic, equine stable, livestock farm, or by raising your own pets.

Students completing this program will possess the appropriate cluster technical knowledge and skills associated with the animal production, animal health, animal anatomy, physiology, nutrition, processing, marketing, distribution, financing, small animal care and management. In addition to the required technical skills, students will also develop leadership, advanced employability, critical thinking, applied academic, and life management skills.

ANIMAL SYSTEMS 01.0100.40

Program Description, Coherent Sequence, and Certification Information

The program utilizes a delivery system made up of three essential and required components: formal instruction, experiential education through Supervised Agricultural Experiences (SAEs), leadership and personal development through the Career and Technical Student Organization FFA.

COHERENT SEQUENCE

01.0100.10 Animal Systems I

and

01.0100.12 Animal Systems II

and

01.0100.40 Animal Systems III

and program may elect to add:

01.0100.45 Animal Systems IV

or

01.0100.70 Animal Systems – DCE (Diversified Cooperative Education)

or

01.0100.75 Animal Systems - Internship

or

01.0100.80 Animal Systems – Cooperative Education

ANIMAL SYSTEMS 01.0100.40

Program Description, Coherent Sequence, and Certification Information

TEACHER CERTIFICATION REQUIREMENTS FOR THE ANIMAL SYSTEMS PROGRAM	
CAREER PREPARATION: The instructor must be CTE certified according to the following table:	
Animal Systems	CERTIFICATES
	Types: PCTA, SCTA, SSCTEA
Note:	
<ul style="list-style-type: none"> ▪ Animal Systems 01.0100.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 01.0100.75 is not required to have a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 01.0100.80 is required to have a Cooperative Education Endorsement (CEN). 	

CERTIFICATE ABBREVIATIONS FOR THE ANIMAL SYSTEMS	
Certificate Types	
PCTA	Provisional Career and Technical Education Agriculture
SCTA	Standard Career and Technical Education Agriculture
SSCTEA	Standard Specialized Career and Technical Education Agriculture

Additional Endorsment Certifications for Agricultural Teachers Wanting Integrated Academics Credit	
NES	Biology