

# ANIMAL SYSTEMS 01.0100.40

Program Description, Industry Credential, Coherent Sequence, and Teacher Certification

## 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. 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. 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.

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.

The **Animal Systems** instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations Livestock producer, Poultry farm manager, Livestock inspector, Veterinarian or veterinary technician, Zoo animal specialist, Equine rehabilitator, and Aquaculturalist.

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## INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Animal Systems** instructional program:

- American Meat & Science Association Meat Evaluation Certification
- American Meat Science Association Food Safety and Science Certification
- Arizona Agriculture Skills & Competencies Certificate
- Elanco Veterinary Medical Applications Certification
- Fundamentals of Animal Science Certification
- OSHA 10 – Agriculture
- OSHA 10 – Construction Industry
- OSHA 10 – General

The following industry credential has been approved to meet CTED eligibility for the **Animal Systems** instructional program:

- Certified Veterinary Assistant
- Youth Quality Care of Animals

## 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

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## TEACHER CERTIFICATION REQUIREMENTS

CAREER PREPARATION: The instructor must be ADE/CTE certified according to the following Certificates PCTA, SCTA, SSCTEA

### Note:

- **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 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