

## Pathway Summary Descriptions & Details for SAE Journals

*Pathway in: Animal Systems*



Code	Summary Activity Description	AFNR Description	Additional AFNR Details
AS.01	Activities in the animal industry	Examine the components, historical development, global implications and future trends of the animal systems industry.	Evaluate the development and implications of animal origin, domestication and distribution.
AS.02	Evaluating and selecting animals for best use	Classify, evaluate, select and manage animals based on anatomical and physiological characteristics.	Classify animals according to hierarchical taxonomy and agricultural use.
			Apply principles of comparative anatomy and physiology to uses within various animal systems.
			Select animals for specific purposes and maximum performance based on anatomy and physiology.
AS.03	Managing animal health	Provide for the proper health care of animals.	Prescribe and implement a prevention and treatment program for animal diseases, parasites and other disorders.
			Provide for the biosecurity of agricultural animals and production facilities.
AS.04	Managing animal nutrition	Apply principles of animal nutrition to ensure the proper growth, development, reproduction and economic production of animals.	Formulate feed rations to provide for the nutritional needs of animals.
			Prescribe and administer animal feed additives and growth promotants in animal production.
AS.05	Selecting animals for breeding	Evaluate and select animals based on scientific principles of animal production.	Evaluate the male and female reproductive systems in selecting animals.
			Evaluate animals for breeding readiness and soundness.
			Apply scientific principles in the selection and breeding of animals.
AS.06	Proper handling of animals	Prepare and implement animal handling procedures for the safety of animals, producers and consumers of animal products.	Demonstrate safe animal handling and management techniques.
			Implement procedures to ensure that animal products are safe.
AS.07	Managing animal facilities	Select animal facilities and equipment that provide for the safe and efficient production, housing and handling of animals.	Design animal housing, equipment and handling facilities for the major systems of animal production.
			Comply with government regulations and safety standards for facilities used in animal production.
AS.08	Managing environmental impacts	Analyze environmental factors associated with animal production.	Reduce the effects of animal production on the environment.
			Evaluate the effects of environmental conditions on animals.