

# Fundamental Animal Science (18101) (2022)

Examine animal anatomy and physiology of domestic animals. AN 1

- 1 Recognize and distinguish animals by species, breed, gender or use. AN 1.1
- 2 Analyze the parts and functions of an animal's internal and external anatomy. AN 1.2

Analyze animal health indicators and responses. AN 2

- 1 Evaluate the essential factors that determine the health status of an animal. AN 2.1
- 2 Analyze and investigate proper response to poor animal health and the proper usage and effects of animal health products. AN 2.2

Demonstrate understanding of practices that promote safe human and animal interactions. AN 3

- 1 Evaluate an animal's behavior and determine a strategy to safely work with it. AN 3.1
- 2 Examine and assess animal housing, equipment, and handling facilities for the safety of animals and humans. AN 3.2
- 3 Critique management practices that support environmentally sustainable animal production. AN 3.3

Distinguish elements of proper animal nutrition. AN 4

- 1 Compare an animal's differing nutritional needs throughout its life cycle. AN 4.1
- 2 Prepare a feed ration according to animal nutrient requirements. AN 4.2

Study the reproductive system of animals. AN 5

- 1 Examine and compare male and female reproductive systems. AN 5.1
- 2 Discuss reproductive cycles and breeding techniques. AN 5.2
- 3 Identify essential elements of breeding soundness and readiness in males. AN 5.3
- 4 Define and identify elements of estrus, gestation and parturition. AN 5.4

Identify factors that affect an animal's performance. AN 6

- 1 Predict genetic outcomes. AN 6.1
- 2 Assess an operation to determine if an animal has reached its optimum performance level. AN 6.2

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**3 Recommend management strategies for animals performing at sub optimal level.** AN 6.3

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**Examine animal industry issues.** AN 7

**1 Compare and contrast consumer concerns related to animal food products.** AN 7.1

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**2 Define common terminology related to animal welfare.** AN 7.2

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**3 Analyze consumer perceptions related to animal welfare.** AN 7.3

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**Develop employability skills related to the Animal Systems Pathway.** AN 8

**1 Develop soft skills to enhance employability.** AN 8.1