

# Advanced Animal Science (18107) (2022)

Understand and use safe practices. [ADAN 1](#)

**1 Demonstrate safe use and knowledge of tools and equipment used in animal science.** [ADAN 1.1](#)

**2 Demonstrate workplace/worksite safety procedures and protocols.** [ADAN 1.2](#)

Select proper health care practices for animals. [ADAN 2](#)

**1 Choose prevention and treatment programs for animal diseases, parasites, and disorders.** [ADAN 2.1](#)

**2 Discuss how to provide biosecurity for animals, people, and facilities.** [ADAN 2.2](#)

Develop proper nutrition management practices to optimize animal performance. [ADAN 3](#)

**1 Assess nutritional elements as they affect animal performances.** [ADAN 3.1](#)

**2 Develop feed rations to provide for animals' nutritional needs.** [ADAN 3.2](#)

Select reproductive practices to optimize animal production. [ADAN 4](#)

**1 Identify management practices in breeding that account for high quality animals.** [ADAN 4.1](#)

Articulate medical terminology as it relates to animals. [ADAN 5](#)

**1 Recognize relevant medical terminology related to animals.** [ADAN 5.1](#)

**2 Apply medical terminology in the correct context.** [ADAN 5.2](#)

Classify, evaluate, and select animals based on anatomical and physiological characteristics. [ADAN 6](#)

**1 Apply principles of anatomy and physiology to uses within various animal systems.** [ADAN 6.1](#)

**2 Analyze information and make connections pertaining to the interrelatedness of various body systems.** [ADAN 6.2](#)

Utilize principles of veterinary tools and techniques. [ADAN 7](#)

**1 Identify veterinary tools and practices.** [ADAN 7.1](#)

**2 Apply proper veterinary techniques to medical situations.** [ADAN 7.2](#)

**Develop employability skills related to the Animal Systems Pathway.** [ADAN 8](#)

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**1 Develop soft skills to enhance employability.** [ADAN 8.1](#)

**Develop employability skills related to the Animal Systems Pathway.** [ADAN 9](#)

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**1 Develop an individual project plan with goals and timeline.** [ADAN 9.1](#)

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**2 Explore opportunities within AFNR industries.** [ADAN 9.2](#)

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**3 Apply concepts of financial management appropriate to agricultural projects and personal finances.** [ADAN 9.3](#)

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**4 Develop and document knowledge and skills to ensure workplace safety regarding personal health and environmental management.** [ADAN 9.4](#)

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**5 Research and analyze how public policy, laws, and advocacy impact agricultural systems and agricultural literacy.** [ADAN 9.5](#)