



# Animal Science I (HAG2371B)

## NDCDE Resources

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Welcome: Start Here!

Discussion Board: Getting to Know You- Complete Before Unit 1 (Within First 10 Days of Class)

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Course Overview, Grading, Projects- VERY IMPORTANT TO READ FIRST!!!

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Personal Portfolio - Complete within first FIVE days of course

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Supervised Agriculture Experience Project- SAE- Major Grade- READ ALL!!!

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SAE Project Requirements- READ NOW!!!

SAE Examples! (Important Resource for your SAE Portfolio)

SAE Skill Sets (Important Resource for your SAE Portfolio)

QUIZ- SAE- Complete after reading all materials about the SAE Project

SAE Teacher Contact Assignment

Unit 1: Intro. to Animal Science- Animal Domestication, Nomenclature & Species (Chapters 1-3)

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Download Textbook

1. Study Guide & Notes (Complete all items in this unit in order)
2. Chapters 1-3 Assignment
3. Taxonomy Basics
4. Taxonomy Video Assignment
5. Assignment- Unit 3 Taxonomy
6. Video: A Deeper Look into Breeds-Livestock Heritage Breeds
7. Heritage Breed Video Assignment
8. Unit 1 Crossword Puzzle- Read Instructions via Pencil Icon

Unit 2: Animal Protein, Meats, and Hormones/Meat Production (Chapter 4-6)

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1. Study Guide & Notes: Chapters 4-6 (Complete all items in this Unit in order)
2. Chapters 4-6 Assignment
3. Aquaculture Video
4. Aquaculture Video Assignment
5. Meat Cuts Comparison Worksheet- Assignment
6. Meat Cuts Comparison Assessment
- Beef Retail Cuts -- Use to learn the retail cuts. No assignment.
7. Beef Primal Cuts Game- Assignment
8. Beef Retail Cuts Game- Assignment
9. Synthetic Hormones and Meat Production Discussion Board

Unit 3: Other Animal Products- Milk, Eggs, and Wool (Chapters 7-8)

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1. Study Guide & Notes: Chapters 7-8 (Complete all assignments in this Unit in order)

2. Chapters 7-8 Assignment
3. Video: The Art of Cheesemaking
4. Cheesemaking Video Assignment
5. Video: Why and How to Candle Your Eggs
6. Video Assignment: Why and How to Candle Your Eggs
7. Wool Grading Article
8. Animal Products Crossword Review

#### Unit 4: Animal Biology- Cells and Cell Functions (Chapters 9-11)

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1. Study Guide & Notes: Chapters 9-11 (Complete all items in this Unit in order)
2. Chapters 9-11 Assignment
3. Animal Cell Video
4. Eukaryopolis Video Assignment
5. Animal Cell GAME- Assignment
6. Phases of Meiosis Video
7. Mitosis Video Creation- Assignment
8. Meiosis Game Review- Assignment
9. Unit 4: Animal Cells Crossword Puzzle

#### Unit 5: Anatomy & Physiology (Chapters 12-15)

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1. Study Guide & Notes: Chapters 12-15 (Complete all assignments in this Unit in order)
2. Chapters 12-15 Assignment
3. Animal Systems Matching
4. Dairy Cattle Parts Game- Assignment
5. External Parts of Horse Game- Assignment
6. External Parts of the Sheep Game- Assignment
7. Chicken Anatomy Video- Watch and Prepare for Questions
8. Chicken Anatomy Video Assignment
9. Pig Skeletal System- Assignment

#### Unit 6: Animal Systems- Digestive and Hormone (Chapters 16-18)

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1. Study Guide & Notes: Chapters 16-18 (Complete all items in this Unit in order)
  2. Chapters 16-18 Assignment
  4. Endocrine System Functions for Livestock Assignment
  3. Ruminant Digestive System Model- Assignment
  5. Cow Reproductive Hormones Video- Watch and Prepare for Questions
  6. Cow Reproductive Hormone Video Assignment
  7. Dairy Special- America's Heartland- Watch and Prepare for Assignment
  8. America's Heartland Dairy Video Assignment- Complete and Submit
- Unit 6 Crossword

#### Midterm: Animal Science I

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#### 2nd Portfolio: Midterm Portfolio – READ INSTRUCTIONS & COMPLETE NOW!

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#### Unit 7: Reproduction and Fertilization (Chapters 19-21,36)

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1. Study Guide & Notes: Chapters 19-21, 36 (Complete all items in this Unit in order)
2. Chapters 19-21, 36 Assignment
4. Video: Synchronizing Estrus, Heat Detection, & AI
5. Video Assignment- Synchronization of Estrus, Heat Detection, & AI
6. Video: Milk Matters, "Meet America's Dairy Farmers"
7. Video Assignment: Milk Matters
8. Farm Management Assignment

#### Unit 8: Genetics and Inheritance (Chapters 22-24)

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1. Study Guide & Notes: Chapters 22-24 (Complete all assignments in this Unit in order)
2. Chapters 22-24 Assignment
3. DNA Structure and Replication Video
4. Video- Heredity: Crash Course Biology
5. Video Assignment- Heredity
6. Punnett Square Practice- Assignment
7. Baby Bunny Creation- Assignment
8. Unit 8 Genetics & Inheritance Crossword

#### Unit 9: Genetic Selection and Mutation (Chapters 25-26)

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1. Study Guide & Notes: Chapters 25-26 (Complete all items in this Unit in order)
2. Chapters 25-26 Assignment
3. Video- Natural Selection
4. Natural Selection Video Assignment
5. Article- Mutation and Milk Yields in Dairy Cattle
6. Article Assignment: Mutation & Milk Yields in Dairy Cattle

#### Unit 10: Digestion and Nutrition Needs (Chapters 27-31)

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1. Study Guide & Notes: Chapters 27-31 (Complete all items in Order)
2. Chapters 27-31 Assignment
3. Video: Types of Livestock Digestive Systems
4. Digestion Video Assignment
5. Digestion Story Assignment
6. Nutritional Information on Feed Labels
7. Functions, Deficiency Symptoms, and Signs of Minerals in Livestock- Assessment
- 8.. Unit 10 Digestion/Nutrition Crossword

#### Unit 11: Animal Feed and Rations (Chapters 32-35)

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1. Study Guide & Notes: Chapters 32-35 (Complete all items in this Unit in order)
2. Chapters 32-35 Assignment
3. Assignment: Feed Marketing Pamphlet
4. Video: Tips to make silage
5. Silage Video Assignment
6. Implant Cattle Properly Video
7. Hormone Implant Video Assignment
8. Pearson Square Help- PowerPoint  
Balancing a Feed Ration Using the Pearson Square Method
9. Pearson Square Math Practice

#### Final SAE Project- TURN IN HERE

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#### 3rd Portfolio: FINAL Portfolio – READ ALL DIRECTIONS & COMPLETE NOW!

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#### Final Exam: Animal Science I

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NAASO Survey -- Submit a screen shot of the completed survey screen for credit.

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#### End of Course Survey

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End of Course Survey