



# Animal Science I (HAG1371B)

NDCDE User Guide- READ FIRST!

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Welcome: Start Here!

Course Overview, Portfolio, and Textbook- READ NOW!

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Portfolio Instructions: Download and Read First!

Course Portfolio Information and Examples

How-to Video: Sharing your Pathbrite Portfolio with your Teacher. View, learn, and share yours today!

Course Textbook- USE THIS FOR ALL UNITS, ASSIGNMENTS, AND READINGS.

QUIZ- Course Portfolio- Complete after reading all materials on the Course Portfolio- Within first FIVE days of course

Supervised Agriculture Experience Project - SAE - Major Grade

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SAE Project Requirements

SAE Examples!

SAE Skill Sets (Important Resource for your SAE Portfolio)

SAE: Teacher Contact (Complete within first week of course!)

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

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

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

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

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

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1. 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- Portfolio Assignment
6. Meat Cuts Comparison Assessment
7. Beef Primal Cuts Game- Portfolio Assignment
8. Beef Retail Cuts Game- Portfolio Assignment
9. Synthetic Hormones and Meat Production Discussion Board
10. Portfolio Update: Complete Now!

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

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1. 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. Unit 3 Crossword Review Puzzle- Read Instructions via Pencil Icon
9. Portfolio Update: Complete Now!

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

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1. 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- Portfolio Assignment
6. Mitosis Video Creation- Portfolio Assignment
7. Meiosis Game Review- Portfolio Assignment
8. Unit 4 Animal Cells & Functions Review- Read Instructions via Pencil Icon
9. Portfolio Update: Complete Now!

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

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1. 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- Portfolio Assignment
5. External Parts of Horse Game- Portfolio Assignment
6. External Parts of the Sheep Game- Portfolio Assignment
7. Chicken Anatomy Video- Watch and Prepare for Questions
8. Chicken Anatomy Video Assignment
9. Pig Skeletal System- Portfolio Assignment
10. Portfolio Update: Complete Now!

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

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1. Notes: Chapters 16-18 (Complete all items in this Unit in order)
2. Chapters 16-18 Assignment
3. Ruminant Digestive System Model- Portfolio Assignment
4. Endocrine System Functions for Livestock 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
9. Unit 6 Crossword Review- Digestion & Hormones- Read Instructions via Pencil Icon
10. Portfolio Update: Complete Now!

### Midterm: Animal Science I

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### 2nd Major Portfolio Update: Complete Now!

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

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1. Notes: Chapters 19-21, 36 (Complete all items in this Unit in order)
2. Chapters 19-21, 36 Assignment
3. Reproductive Tract Identification

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- Portfolio Assignment
9. Portfolio Update: Complete Now!

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

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1. 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- Portfolio Assignment
7. Baby Bunny Creation- Portfolio Assignment
8. Unit 8 Crossword Puzzle Review- Read Instructions via Pencil Icon
9. Portfolio Update: Complete Now!

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

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1. 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
7. Portfolio Update: Complete Now!

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

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1. 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 Crossword Puzzle Review- Read Instructions via Pencil Icon
9. Portfolio Update: Complete Now!

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

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1. Notes: Chapters 32-35 (Complete all items in this Unit in order)
2. Chapters 32-35 Assignment
3. Portfolio Assignment: Feed Marketing Pamphlet
4. Quality Corn Silage Harvest Video
5. Silage Video Assignment
6. Implant Cattle Properly Video
7. Hormone Implant Video Assignment
8. Pearson Square Help- PowerPoint
9. Pearson Square Math Practice
10. Portfolio Update: Complete Now!

3rd & Final Portfolio Update: Complete Now

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Final Exam: Animal Science I

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End of Course Survey

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