



Animal Science: Beef Production (HAG2101B)

NDCDE User Guide

Welcome: Start Here!

Course Overview, Portfolio, and Textbook- READ NOW!

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

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)

Beef and Dairy Breeds Power Point Project -- DUE by the end of the Semester!

Beef Breeds Identification Project --- Due at the end of the semester!

SUBMIT Your Beef Breeds Project Here!

Unit 1 ... The Beef Industry

1. Unit 1 Concepts and Terms- Read and Review
2. The Beef Industry E-Chapter- Read & Place Notes in Portfolio
3. The Beef Industry PowerPoint- Read & Place Notes in Portfolio
4. Video: A World Look at the Beef Industry- Watch & Prepare for Questions
5. Video Assignment- Answer after watching the video
6. Beef Industry Crossword Puzzle
7. Beef Industry Exercise
8. Unit 1 Assignment
9. Portfolio Update: Complete Now

Unit 2... Selecting Feeder Cattle

1. Unit 2 Concepts and Terms- Read and Review
2. Selecting Feeder Cattle E-Chapter- Read & Place Notes in Portfolio
3. Selecting Feeder Cattle PowerPoint- Read & Place Notes in Portfolio
4. Live Beef Assessment- Read & Prepare for Questions
5. Feeder Calf Grading System- Read & Prepare for Questions
6. Preconditioning Calves- Read & Prepare for Questions
7. Unit 2 Article Questions

8. Preconditioning Calves Video- Watch & Prepare for Questions
9. Backgrounding -- NDSU - Watch & Prepare for Questions
10. Handling Cattle in Backgrounding Calves- Watch & Prepare for Questions
11. Unit 2 Video Assessment
12. Preconditioning Feed Ration Calculator -- Excel - Resource
13. Unit 2 Selecting Feeder Cattle Crossword Puzzle
14. Unit 2 Selecting Feeder Cattle Assignment
15. Unit 2 Assignment
16. Portfolio Update - Complete Now

Unit 3 ... Beef Cattle Nutrition

1. Unit 3 Concepts and Terms- Read and Review
2. Nutrition of Market Cattle E-Chapter- Read & Place Notes in Portfolio
3. Nutrition of Market Cattle PowerPoint- Read & Place Notes in Portfolio
4. Nutrition of Market Cattle Crossword Puzzle
5. Nutrition of the Cow Herd E-Chapter- Read & Place Notes in Portfolio
6. Nutrition of the Cow Herd PowerPoint- Read & Place Notes in Portfolio
7. Nutrition of Cow Herd Crossword Puzzle
8. Urea and NPN Article- Read & Prepare for Questions
9. Estimating Cattle Performance With Net Energy Article- Read & Prepare for Questions
10. Unit 3 Articles Assessment
11. Growth Implants Video- Watch & Prepare for Questions
12. Feed Labels Video- Watch & Prepare for Questions
13. Unit 3 Videos Assessment
14. Unit 3 Assignment
15. Portfolio Update- Complete Now

Unit 4 ... Weaning Management

1. Unit 4 Concepts and Terms- Read and Review
2. Weaning Management E-Chapter- Read & Place Notes in Portfolio
3. Weaning Management PowerPoint- Read & Place Notes in Portfolio
4. Weaning Procedures- Read & Prepare for Questions
5. Two-Stage Weaning Calves Video- Watch & Prepare for Questions
6. Weaning Calves- Read & Prepare for Questions
7. Weaning Articles & Video Assignment
8. Weaning Management Crossword Puzzle
9. Dehorning Calves Video- Watch & Prepare for Questions
10. Dehorning with Paste Video- Watch & Prepare for Questions
11. Dehorning Video Assignment
12. Unit 4 Assignment
13. Portfolio Update- Complete Now

Unit 5 ... Beef Cattle Health

1. Unit 5 Concepts and Terms- Read & Review
2. Beef Cattle Health E-Chapter- Read & Place Notes in Portfolio
3. Beef Cattle Health PowerPoint- Read & Place Notes in Portfolio
4. Leptospirosis in Cattle- Read & Prepare for Questions
5. Beef Cattle Ectoparasites- Read & Prepare for Questions
6. Bovine Respiratory Disease. AWESOME! Watch & Prepare for Questions
7. BVD Vet's Q & A- Watch & Prepare for Questions
8. Winter Udder Health Management- Read & Prepare for Questions
9. Cattle Health Article & Video Assignment
10. Beef Cattle Health Crossword Puzzle

11. Unit 5 Beef Cattle Health Assignment
12. Unit 5 Assignment
13. Unit 5 Quiz #2
14. Portfolio Update- Complete Now

Unit 6 Raising and Selling Market Cattle

1. Unit 6 Study Guide- Read & Review
2. Raising and Selling Market Cattle E-Chapter- Read & Place Notes in Portfolio
3. Raising and Selling Market Cattle PowerPoint- Read & Place Notes in Portfolio
4. Raising & Selling Market Cattle Crossword Puzzle
5. Raising and Selling Market Cattle Exercise
6. Beef Production for Small Farms Article- Read & Prepare for Questions
7. Profitable Cattle Marketing for the Cow-Calf Producer- Read & Prepare for Questions
8. Determining the Market Readiness of Beef Cattle Video- Watch & Prepare for Questions
9. Profit is in the Numbers- Watch & Prepare for Questions
10. Unit 6 Assignment
11. Portfolio Update- Complete Now

Unit 7 ... Feeding Productive Beef Cows

1. Unit 7 Concepts and Terms- Read & Review
2. Feeding Productive Beef Cows E-Chapter- Read & Place Notes in Portfolio
3. Beef Body Condition Scoring- Read & Place Notes in Portfolio
4. Feeding The Cow Herd- Read & Prepare for Questions
5. Winter Feeding Cattle- Watch & Prepare for Questions
6. COLD WEATHER FEEDING CONSIDERATIONS- Read & Prepare for Questions
7. Buying Hay Forage Analysis- Read & Prepare for Questions
8. Supplementing beef cows with wheat DDGS- Watch & Prepare for Questions
9. Unit 7 Article & Video Assignment
10. Unit 7 Assignment
11. Portfolio Update- Complete Now

Mid-Term Exam

Mid-Term Exam

2nd Major Portfolio Update: Complete Now!

Unit 8 ... Improving Beef Cow Reproduction

1. Unit 8 Concepts and Terms- Read & Review
2. Improving Beef Cow Reproduction E-Chapter- Read & Place Notes in Portfolio
3. The anatomy of cow reproductive tract Part 1- Watch & Prepare for Questions
4. The anatomy of cow reproductive tract Part 2- Watch & Prepare for questions
5. Bull Reproductive Anatomy- Watch & Prepare for Questions
6. Breeding Soundness Evaluation for Beef and Dairy Bulls- Read & Prepare for Questions
7. Body Scoring Cattle Video- Watch & prepare for Questions
8. Unit 8 Article & Video Assignment
9. Improving Beef Cow Reproduction Exercises
10. Beef Cow Reproduction Crossword Puzzle
11. Unit 8 Assignment
12. Portfolio Update- Complete Now

Unit 9 ...Estrus Synchronization and Heat Detection in Cattle

1. Unit 9 Concepts and Terms- Read & Review
2. Estrous Synchronization and Heat Detection in Cattle E-Chapter- Read & Place Notes in Portfolio
3. Estrous Synchronization & Heat Detection in Cattle PPT- Read & Place Notes in Portfolio

4. Heat Detection in Beef Cattle- Watch & Prepare for Questions
5. Silent Partner- Read & Prepare for Questions
6. Estrous Detection Video- Watch & Prepare for Questions
7. Synchronizing Estrous, Heat Detection, and AI- Watch & Prepare for Question
8. Unit 9 Article & Video Assignment
9. Estrous Sync. & Heat Detection Crossword Puzzle
10. Unit 9 Estrus Synchronization and Heat Detection in Cattle Assignment
11. Unit 9 Assignment
12. Portfolio Update- Complete Now

Unit 10 ... Artificial Insemination in Cattle

1. Unit 10 Concepts and Terms- Read & Review
2. Artificial Insemination in Cattle E-Chapter- Read & Place Notes in Portfolio
3. Artificial Insemination in Cattle PPT- Read & Place Notes in Portfolio
4. AI in Cattle- Read & Prepare for Questions
5. The Origins of Artificial Insemination- Watch & Prepare for Questions
6. Artificial Insemination for Cattle Video 1- Watch & Prepare for Questions
7. Nitrogen Tank Handling Video- Watch & Prepare for Questions
8. Artificial Insemination for Cattle Procedure Video- Watch & Prepare for Questions
9. Unit 10 Article and Video Assignment
10. Artificial Insemination in Cattle Crossword Puzzle
11. Unit 10 Assignment
12. Portfolio Update- Complete Now

Unit 11 ... Bovine Semen Collection and Processing

1. Unit 11 Concepts and Terms- Read & Review
2. Bovine Semen Collection and Processing E-Chapter- Read & Place Notes in Portfolio
3. Bovine Semen Collection and Processing PPT- Read & Place Notes in Portfolio
4. Semen Collection Devices- Review & Prepare for Questions
5. Bovine Semen Collection Video- Watch & Prepare for Questions
6. ElectroJac 6, Breeding Soundness Video- Watch & Prepare for Questions
7. SEMEN EVALUATION- Read & Prepare for Questions
8. Microscope Bull Sperm Video- Watch & Prepare for Questions
9. Unit 11 Article & Video Assignment
10. Bovine Semen Collection/Processing Crossword Puzzle
11. Unit 11 Terminology Assignment
12. Unit 11 Assignment
13. Portfolio Update- Complete Now

Unit 12 ... Calving Management

1. Unit 12 Concepts and Terms- Read & Review
2. Calving Management E-Chapter- Read & Place Notes in Portfolio
3. Calving Management PowerPoint- Read & Place Notes in Portfolio
4. Parturition (Calving) Video- Watch & Prepare for Questions
5. Calving Difficulties Video- Watch & Prepare for Questions
6. Treatment of the Newborn Calf Video- Watch & Prepare for Questions
7. Dangers of Tagging (doctoring) Calves Video- Watch & Prepare for Questions
8. Colostrum for New Born Calves Video- Watch & Prepare for Questions
9. Investigating Stillborn Calves- Read & Prepare for Questions
10. Unit 12 Article and Video Assignment
11. Calving Management Crossword Puzzle
12. Unit 12 Calving Management Terminology Assignment
13. Unit 12 Assignment

14. Portfolio Update- Complete Now

Unit 13 ... Getting Beef Calves Started on Feed

1. Unit 13 Concepts and Terms- Read & Review
2. Feeding Management for Backgrounders- Read & Place Notes in Portfolio
3. Feeding and Managing Baby Calves from Birth-3 Months- Read & Place Notes in Portfolio
4. Hand Feeding Young Calves- Read & Place Notes in Portfolio
5. Weaning Beef Calves- Read & Place Notes in Portfolio
6. Creep Feeding Calves Video- Watch & Place Reflection in Portfolio
7. Creep Feeding Beef Calves- Read & Place Reflection in Portfolio
8. Creep Feeding Calves- Read & Place Reflection in Portfolio
9. Unit 13 Assignment
10. Portfolio Update- Complete Now

Unit 14 ... Nutrition of Growing and Finishing Cattle

1. Unit 14 Concepts and Terms- Read & Review
2. Nutrition of Growing and Finishing Cattle E-Chapter- Read & Place Notes in Portfolio
3. BEEF CATTLE NUTRITION AND FEEDING- Read & Place Notes in Portfolio
4. Nutrition Basics- Read & Place Notes/Reflection in Portfolio
5. Establishing Nutrient Requirements- Read & Place Notes/Reflection in Portfolio
6. Nutrient Requirement Tables- Read & Place Notes/Reflection in Portfolio
7. Systems for Backgrounding Beef Cattle- Read & Place Notes/Reflection in Portfolio
8. Fundamentals of Feed Mixing- Watch & Place Notes/Reflection in Portfolio
9. Unit 14 Nutrition of Growing and Finishing Cattle Terminology Assignment
10. Unit 14 Assignment
11. Portfolio Update- Complete Now

Unit 15 ... Using Growth Promotants for Cattle

1. Unit 15 Concepts and Terms- Read & Review
2. Using Growth Promotants for Cattle E-Chapter- Read & Place notes in Portfolio
3. Using Growth Promotants for Cattle PowerPoint- Read & Place Notes in Portfolio
4. Medicated Feed Additives for Beef Cattle and Calves- Read & Place Notes in Portfolio
5. Implanting Cattle Properly- Watch & Place Notes/Reflections in Portfolio
6. Feed Additives- Read & Place Notes/Reflection in Portfolio
7. Feed Additives for Backgrounding Calves- Read & Place Notes/Reflection in Portfolio
8. Implant Cattle Properly- Watch & Place Notes/Reflection in Portfolio
9. Video Tour of Beef Plant Featuring Temple Grandin- Watch & Place Notes/Reflection in Portfolio
10. Using Growth Promotants for Cattle Crossword Puzzle
11. Unit 15 Using Growth Promotants for Cattle Terminology Assignment
12. Unit 15 Assignment
13. Portfolio Update- Complete Now

3rd & Final Portfolio Update: Complete Now

Final Exam Please do not attempt the final exam without completing all ...

NAASO Survey -- PLEASE TAKE THIS SURVEY!

Animal Science-Beef Production Final Exam

SAE Project- FINALIZE NOW IN YOUR PORTFOLIO

End of Course Survey

End of Course Survey