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| Course Name Syllabus **Introduction to Animal Science** |  |

## Course Overview

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| Course Number and Section | Credits | Hours | Semester | Year |
| **10-091-171** | 3 | 72 | Fall | 2022 |

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| Mode of Delivery: | In person; canvas, google classroom |
| Meeting Times and Location: | Canvas |
| Type of Instruction: | Online |
| Course Description: | Introduction to the basics of livestock management. Management of the dairy herd with concentration on nutrition, feedstuff's classification, reproduction, genetics, animal behavior, animal health and sustainable agriculture practices. |
| Pre/Corequisites: | Prerequisite: 10-091-101 ORIENTATION TO DAIRY SCIENCE Condition: Accepted into the Dairy Science, Agri-Business, or Veterinary Science Associate Degree program, or with Dean approval. (2537) |
| Textbook(s): | W. Stephen Damron. *Introduction to Animal Science: Global, Biological, Social and Industry Perspectives,*  Prentice Hall. 2018. **Edition:** Sixth. **Pages:** 684. **ISBN:** 9780134436050  Grandin, T. & Deesing, M. (2008). Humane Livestock Handling. Storey Publishing. ISBN: 978-1-60342-028-0. Required |
| Learner Supplies: | Internet access |
| Technology Requirements: | *: Internet, Canvas,* |

## Instructor Information

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| --- | --- | --- |
| Name | Email | Phone Number |
| Matt Reinders | matt@edgar.k12.wi.us | (715) 352-2352 x110 |

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| Preferred Communication Method: | email |
| Expectations for Response Time: | Your instructor will attempt to respond to your communications and inquiries within 24 hours. |
| Starfish: | Students success |
| Office Hours/Student Connect Time: | Fourth Block: 1:45-3:15 p.m. |

## What you will learn in this Course

## Course Competencies

Once completed with this course, you should be able to:

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| **Analyze the place of animals and animal science in the lives of humans** |
| **Analyze nutrition, digestion, and nutrient value in feeds** |
| **Examine the concept of animal health** |
| **Analyze basic animal genetics** |
| **Perform breed identification and dairy cattle selection skills** |
| **Explain male and female reproductive anatomy and basic bovine reproduction** |
| **Explore basic husbandry and care procedures for dairy animals** |
| **Convey the importance of sustainable agriculture in dairy farming** |

**Course Schedule**

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| **Date/Module** | **Competencies/Learning Objectives** | **Learning Activities** | **Assignments/Quizzes** |
| *Week 1*  *No show Due date 09/8/2022* | Nutrient contributions of animals | Post welcome note  Read chapters 1, 2  Complete selected study questions |  |
| *Week 2*  *Suggested Due date 09/15/2022* | Nutrient contributions of animals | Read chapter 3  Complete selected study questions  Read selected articles | Discussion Board. animal product consumption article |
| *Week 3*  *Suggested Due date 09/22/2022* | Nutrition, digesting, and nutrient value in feeds for dairy cattle | Read chapter 4,5  Complete selected study questions  View Videos  Read selected articles |  |
| *Week 4*  *First Quarter Due Date 09/29/2022*  *All work must be turned in for weeks 1-4* | Nutrition, digesting, and nutrient value in feeds for dairy cattle | Read chapter 6  Complete selected study questions  Read selected articles  View online videos |  |
| *Week 5*  *Suggested Due date 10/08/2022* | Nutrition, digesting, and nutrient value in feeds for dairy cattle  Animal health | Read chapter 7, 14  Complete selected study questions  Read selected articles | Complete dairy nutrition outline |
| *Week 6*  *Suggested Due date 10/13/2022* | Nutrition, digesting, and nutrient value in feeds for dairy cattle  Animal health | Read articles on National Animal Identification System  Animal Diseases and Prevention  Read selected articles | Discussion Board NAIS article 1 classmate’s post to the discussion board  Discussion Baord Animal Diseases and Prevention article and respond to at least 1 classmate’s post to the discussion board |
| *Week 7*  *10/20/2022* | Basic animal genetics | Read chapter 8, 9  Complete selected study questions  View video |  |
| *Week 8*  *Since spring break is this week, the assignments will be due next week*  *Second Quarter Due Date 10/27/2022*  *All work must be turned in for weeks 5-8* | Basic animal genetics | Read chapter 10, 11  Complete selected study questions  Read articles |  |
| *Week 9*  *Suggested Due date 11/03/2022* | Breed identification and selecting dairy cattle  Basic bovine reproduction | Read chapter 17  Complete selected study questions | Create a bulleted list of major dairy cattle breeds |
| *Week 10*  *Suggested Due date 11/10/2022* | Breed identification and selecting dairy cattle  Basic bovine reproduction | Read chapter 12  Complete selected study questions  Read articles | Answer questions or complete activity for mammary glands or parts of the udder |
| *Week 11*  *Suggested Due date 11/17/2022* | Animal husbandry | Read chapter 13  Complete selected study questions  Read at least chapters 3 and 4 in Humane Livestock Handling. |  |
| *Week 12*  *Third Quarter Due Date 11/24/2024*  *All work must be turned in for weeks 9-12* | Animal husbandry | View videos | Discuss considerations in animal handling or facilities after the reading and video activities – discussion board- respond to at least 1 classmate’s post to the discussion board  Animal handling & residue monitoring assignment |
| *Week 13*  *Suggested Due date 12/01/2022* | Sustainable agriculture | Read chapter 26  Complete selected study questions | Complete Crossword Puzzle 1 |
| *Week 14*  *Suggested Due date 12/8/2022* | Sustainable agriculture | Read chapter 27, 28  Complete selected study questions  View video | Complete Crossword Puzzle 2 |
| *Week 15*  *Suggested Due date 12/15/2022* | Sustainable agriculture | Read chapter 29  Complete selected study questions | Discussion Board sustainable agriculture activity. Respond to another classmate’s post.  Discussion Board the farm bill. Respond to another classmate’s post.  Fill-in-the-blank |
| *Week 16* Final Week of Class All Assignments Due 12/18/2020 | Wrap up week | Make sure all work is completed |  |

### Student Effort

In order to successfully meet the requirements of this course, you should expect to invest approximately 2 hours of outside effort for every 1 hour of instruction.

### Grading Expectations

Students should typically receive instructor feedback on assessed activities submitted for grading within 24 hours of the respective assessment’s due date. Such feedback may be delayed in the case of unique or unforeseen circumstances or when denoted as such within the specific assessed activity.

### Grading Scale

**Grading Scale 1**

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| --- | --- |
| Grade | % needed to achieve grade |
| A | 93 - 100 |
| A- | 90 - 92 |
| B+ | 87 - 89 |
| B | 83 - 86 |
| B- | 80 - 82 |
| C+ | 77 - 79 |
| C | 70 - 76 |
| D | 60 - 69 |
| F | 59 and below |

### Grades are rounded to the tenth place. For example: 88.47 will be graded in Canvas as 88%

**88.59 will be graded in Canvas as 89%**

### Assessment Information

This course is a performance-based course, designed for your success.  Learning modules will be studied over the course of the semester.  Each module will have assessment activities or Performance Assessment Tasks (PATs) which will evaluate your performance of the course competencies.  Your grade will be based on you being able to demonstrate all course competencies. Final course grades can be viewed by going to www.ntc.edu, clicking on Student Portal/myNTC and following the instructions listed.

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| **Type** | **Title** | **Points** |  |
| Learning Plan | Nutrient contributions of animals |  |  |
| Learning Plan | Nutrition, digesting, and nutrient value in feeds for dairy cattle |  |  |
| Learning Plan | Animal Health |  |  |
| Learning Plan | Basic Animal Genetics |  |  |
| Learning Plan | Breed Identification and Selecting Dairy Cattle |  |  |
| Learning Plan | Basic Bovine Reproduction |  |  |
| Learning Plan | Animal Husbandry |  |  |
| Learning Plan | Sustainable Agriculture |  |  |
|  |  |  |  |
| DQ | **Welcome Note** | 4 |  |
| Study Questions | Chapter 1: 4,8,12,13,19 p. 13-14 | 20 |  |
| Extra Credit | quiz available in course information | 0 | Up to 30 |
| Study Questions | Chapter 2: 2,4,5,7 p. 32-33 | 16 |  |
| Study Questions | Chapter 3: 1,9,10,11 p. 50 | 16 |  |
| Performance Assessment Task/DQ | Article on Animal Product Consumption | 50 |  |
| Study Questions | Chapter 4: 3 p.67 | 4 |  |
| Study Questions | Chapter 5: 1,5,6,8,9,11,12,13,19,20,22,25,27 p.89 | 52 |  |
| Study Questions | Chapter 6: 1,2,4,6,7,8,19,21,23,24,25,26 p.105-106 | 44 |  |
| Study Questions | Chapter 7: 1,3,4,5,7 p.123 | 20 |  |
| Study Questions | Chapter 14: 2,4,5,6,8,9 p.281 | 24 |  |
| Performance Assessment Task | Dairy Nutrition Outline | 75 |  |
| Performance Assessment Task/DQ | National Animal Identification Ssytem | 50 |  |
| Performance Assessment Task/DQ | How Disease is Spread | 50 |  |
| Study Questions | Chapter 8: 1,7,12,13,14,15,16,17,29 p.143-144 | 36 |  |
| Study Questions | Chapter 9: 1 p.174-175 | 4 |  |
| Study Questions | Chapter 10: 3,4,9,10,12 p.199-200 | 20 |  |
| Study Questions | Chapter 11: 3,6,12,22,23,25,29 p.122-123 | 28 |  |
| Study Questions | Chapter 17: 1,6,10,11 p.351 | 16 |  |
| Performance Assessment Task | List of Dairy Cattle information | 30 |  |
| Study Questions | Chapter 12: 1,2,4,6,14,16 p.233 | 24 |  |
| or | Parts of the mammary gland |  |  |
| or | Parts of the udder |  |  |
| Study Questions | Chapter 13: 3,7,8,10,14,15,16,27 p.254-255 | 28 |  |
| Performance Assessment Task/DQ | Discuss proper animal handling techniques or facilities for proper animal handling | 50 |  |
| Quiz | Animal Handling | 50 |  |
| Quiz | Residual Monitoring | 20 |  |
| Study Questions | Chapter 26: 1,3,4 P.589-590 | 12 |  |
| Crossword | Crossword 1 | 20 |  |
| Study Questions | Chapter 27: 1,3,4,9 p.614 | 16 |  |
| Crossword | Crossword 2 | 18 |  |
| Study Questions | Chapter 28 (post date read) | 5 |  |
| Study Questions | Chapter 29 (post date read) | 5 |  |
| Performance Assessment Task/DQ | Discuss sustainable agriculture | 50 |  |
| Quiz | Fill-in-the-blank | 40 |  |
| Performance Assessment Task/DQ | Discuss Farm Bill | 50 |  |
|  |  |  |  |
|  | Total Course Points | 922 | 952 |

### Attendance

As your instructor, I will make reasonable allowances for personal illness, legitimate absences which accommodate the Americans with Disabilities Act (ADA) and absences for sincerely held religious beliefs. Whenever possible, please contact me prior to an absence to make arrangements for missed course work. Unexcused or excessive absences, however, will have a negative impact on your success in this course.

### Late Work

Late PATs must be completed such that they would have received a score of 70% if handed in on time. Points will be taken off according to the following schedule.

10% Reduction Handed in one week after the due date

100% Reduction Handed in more than two weeks after the due date. I will not grade work which is two or more weeks late.

**Note:** The deadlines can be adjusted on an individual basis if I am made aware of extenuating circumstances prior to the due date. It is your responsibility to make arrangements with me to turn assignments which are late due to illness, car accident, etc. Contact me by email as soon as possible to make these arrangements, do not wait till the next assigned class period to turn them in.

## Campus Closures Due to Weather and other Emergencies

In the event the campus is closed, students should check Canvas for updates and announcements from their instructor.

### Personal Electronic Device Use

<Per faculty. List if applicable. Otherwise, denote as “None” or “N/A.”>

## Program Outcomes

In this course you will develop knowledge and skills in support of the following Program Outcomes:

**Agri-Business**: demonstrate good working skills, apply skills and training in the areas of marketing, dairy management, and sales, grasp the core concepts of agriculture and business management, demonstrate understanding of the major functional areas of agri-business, incorporate information from written documents, legal documents, professional literature and reports.

**For Dairy Science**: demonstrate good working skills, develop the entrepreneurial skills to begin their own dairy production business, assist with planning and facilitating activities that support agriculture, summarize the stages of agriculture timelines and planning development, demonstrate increased awareness of sound environmental practices.

## Soft Skill(s)

Northcentral Technical College strives to help students reach their full academic and career potential. Seven Soft skills are purposefully integrated into campus activities and coursework. In this course, we will focus on the following Soft Skills(s):

*Communicate Effectively Act Responsibly Work Productively*

*Work Cooperatively Demonstrate Integrity Think Critically and Creatively*

*Develop Global Awareness*

## NTC Student Handbook

Northcentral Technical College has numerous resources available to help you achieve your academic and career goals. For additional information, visit: <https://www.ntc.edu/students/handbook>.

## Course Revisions

In this syllabus, I have provided course information and a tentative schedule to guide your learning. I do, however, reserve the right to revise this information so that I may offer you the most current content and effective educational experiences. I will communicate any syllabus or schedule changes to you in a timely manner to support your success in this course.