|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Advanced Dairy Management | | | | | | | | | |
| **ANIMAL AND VETERINARY SCIENCE** | | | | | | | | | |
| **SPRING SEMESTER 2024** | | | | | | | | | |
| Instructors: Dr. Ahmadzadeh | | | | | | | | | |
|  | | | | |  | |  |  | |
| **Amin Ahmadzadeh, Ph. D.** | | | | | **amin@uidaho.edu** | | **(208) 885-7409** | **Ag. Science. Bldg. #219** | |
| **Lecture: Tues. and Thur AG SCi 204, starting at 3:30 PM and 4:45 PM**  [**https://webpages.uidaho.edu/avs222/**](https://webpages.uidaho.edu/avs222/) | | | | | | | | | |
| **Text: Handouts and article from Dairy Press** | | | | | | | | | |
|  | |  |  |  | | | | |  |
| **Date** | |  | **Ch** | **Lectures** | | | | | **Tests and Quizzes** |
|  | |  |  |  | | | | | Will be announced |
| ***Wk Jan 8th*** | | R |  | Overview of the Course/Mastitis | | | | |  |
|  | |  |  |  | | | | |  |
| Wk Jan 15th | | T |  | Udder Health and Mastitis, Evaluating Dairy Record | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  | Dairy Comp 305, Farm and Data analysis | | | | |  |
| Wk Jan 22nd | | T |  | Factors Influencing Mastitis; Prevention; Control | | | | |  |
|  | | R |  | Milking Management and Milking Parlor | | | | |  |
|  | |  |  |  | | | | |  |
| ***Wk Jan 29th*** | | ***T*** |  | Financial Bench Marks | | | | |  |
|  | | R |  | Dairy Comp and Reproduction, Evaluating Dairy Record | | | | |  |
|  | |  |  |  | | | | |  |
| Wk Feb 5th | | T |  |  | | | | |  |
|  | | R |  | Disease Assessment and Management | | | | |  |
|  | |  |  | Trouble shooting and Farm/Data Evaluation | | | | |  |
| Wk Feb 12th | | T |  | Nutrition | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  |  | | | | |  |
| Wk Feb 19th | | **T** |  | Trouble Shooting Nutrition and Feeding | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  | Western Dairy Challenge | | | | |  |
| ***Wk Feb 26th*** | | ***T*** |  |  | | | | |  |
|  | |  |  |  | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  |  | | | | |  |
| Wk March 4th | | T |  |  | | | | |  |
|  | | R |  | Trouble shooting, Farm/Data Analysis and Evaluation | | | | |  |
|  | |  |  |  | | | | |  |
| Wk March 11th | | T |  | Spring Break | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  |  | | | | |  |
| Wk March 18th | | T |  | Analyzing Your Dairy Business | | | | |  |
|  | | R |  | Systematic Approach to Using Bench Marks | | | | |  |
|  | |  |  |  | | | | |  |
| Wk March 25st | | T |  | National Dairy Challenge | | | | |  |
|  | | R |  | Lameness and Locomotion | | | | |  |
|  | |  |  |  | | | | |  |
| ***Wk April 1st*** | | ***T*** |  |  | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  |  | | | | |  |
| Wk April 8th | | T |  |  | | | | |  |
|  | | R |  |  | | | | |  |
|  | |  |  |  | | | | |  |
| Wk April 15th | | T |  | “ | | | | |  |
|  | | R |  | Bring Everything Together“ | | | | |  |
|  | |  |  |  | | | | |  |
| Wk April 22th | |  |  |  | | | | |  |
|  | |  |  |  | | | | |  |
|  | |  |  |  | | | | |  |
|  | | | |  | | | | |  |
|  |  | | |  | | | | |  |
| Home works (8)  Field trips and Presentations  Quizzes  Final Exam  Total | | | | | | = 100 points  = 150 points  = 50 points  **=** 100 points  **= 400 points** | | |  |

**Course Learning Objectives and Outcome:**

Gain knowledge and training in dairy farm business management to optimize dairy cattle performance and well-being, and improve efficiency, utilizing filed trips, electronic data, computer software, popular press, and scientific literature.

Emphasis is made on relationships of enterprises and techniques for evaluation of business alternatives, efficiency of production, and profit.

Upon successful completion of AVS 475, you will be able to:

***Knowledge Acquisition:***

*Define and explain key concepts and principles related to dairy management, including but not limited to herd health, nutrition, reproduction, and milking procedures.*

*Identify and discuss common challenges and issues in dairy farming and demonstrate an understanding of their underlying causes.*

***Analytical Skills:***

*Evaluate and interpret data related to dairy herd performance, production efficiency, and economic factors affecting dairy operations.*

*Apply critical thinking to assess the impact of management decisions on overall dairy farm sustainability and profitability.*

***Management Competencies:***

*Develop and implement effective herd health management plans, including disease prevention and treatment strategies.*

*Formulate balanced and cost-effective solutions for improvement of management practices*

***Problem Solving:***

*Diagnose and address common issues in dairy herd management, such as reproductive challenges, nutrition deficiencies, and disease outbreaks.*

*Propose and implement solutions to enhance overall farm efficiency and productivity.*

***Communication Skills:***

*Prepare and present comprehensive reports on dairy farm management practices and performance.*

*Regulatory Compliance:*

*By incorporating these learning outcomes, participants in the Dairy Management Evaluation course should be well-equipped with the knowledge and skills needed to effectively evaluate a dairy farm and address the challenges associated with modern dairy production.*

***Field trips and presentation:***

Two to three field trips designed to evaluate different management practices on commercial dairies are **REQUIRED** for the course**. One short field trip is scheduled to evaluate WSU or UI Dairy Center in January another one is scheduled for first week of Feb 5th and the other on is TBA for March.** We will depart early in the morning and return in the early evening. An attire of old clothes and boots are recommended. Students will be formed to evaluate each dairy enterprise and develop an outline describing the strengths and weaknesses of the assigned operation and provide sound solutions for the weak areas of the management. Each team must prepare a 20-30 minute presentation that has to be presented to the instructors. The time and the place of the presentations will be arranged.

**ATTENTION: The field trip is mandatory and required. If students cannot attend the field trip, they must notify the instructor(s) in advance. Students not participating in the field trip will be given other assignments to ensure that they receive a similar educational experience.**