

ANSC 0680

ANSC 4530

DAIRY CATTLE PRODUCTION

RUMINANT PRODUCTION SYSTEMS-MILK

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Class Schedule

- September
- 8- First class degree. Milk and milk synthesis (JP)
 - 11- Milk and milk synthesis (JP)
 - 13- No classes
 - 15- First class diploma. industry overview (JP)
 - 18- Dairy breeds, production cycles, levels of production (JP)
 - 20- Milk marketing, milk statements (JP)
 - 22- Supply management (JP)
 - 25- Mammary gland (JP)
 - 27- Milk and milking (JP)
 - 29- Mastitis (JP)
- October
- 2- Invited speaker. Dr. Rob Berry, MAFRI
 - 4- Midterm 1
 - 6- Field trip diploma. Fall Term Break Degree
 - 9- Thanksgiving
 - 11- Reproduction (JP)
 - 13- Reproduction (JP)
 - 16- Dairy cattle feeds (JP)
 - 18- Dairy cattle feeds (JP)
 - 20- Utilization of feed (JP)
 - 23- Utilization of feed (JP)
 - 25- Feeding the lactating dairy cow (JP)
 - 27- Feeding the lactating dairy cow (JP)
 - 30- Feeding the dry cow (JP)
- November
- 1- Metabolic diseases (JP)
 - 3- Management of calves (JP)
 - 6- Midterm 2
 - 8- Management of heifers (JP)
 - 10- Class presentations
 - 13- Remembrance Day. No classes
 - 15- Class presentations
 - 17- Class presentations
 - 20- Class presentations
 - 22- Genetics and selection (JP)
 - 24- Genetics and selection (JP)

27- Housing (JP)
 29- Housing
 December 1- Sheep and goats (JP)
 4-Last class diploma-Review
 6- International issues (JP)
 8-Last class degree- Review (JP)

Laboratory Schedule

September 13- No lab
 September 20- Computer lab, Cost of production. Assignment #1 (JP)
 September 27- Glenlea, Milking and mastitis (JP, LL)
 October 4 – Dairy farmers of Manitoba (JP)
 October 11- Farm management (LL, JP)
 October 18- Feed analysis (JP)
 October 25 – Feed facts (JP)
 November 1- Glenlea: Feeding and nutrition (JP, LL)
 November 8- Computer lab, Feed formulation, Assignment #3 (GG)
 November 15- Glenlea: Cattle lab, type traits and body condition scores (LL)
 November 22- Interpretation of DHI reports (JP)
 November 29- Sire selection (JP)
 December 6-

JP = J.C. Plaizier
 LL= Lindsey Lippins

Course Grading Schedule

Participation in class	- 10%
Assignment #1 (Cost of production, Due September 27)	- 7.5%
Assignment #2. Project	- 15%
Outline and references (due October 16),	- 5%
Presentation (on October 15-29)	- 10%
Mid-term test #1 (October 4)	- 15%
Assignment #3 (Feed formulation, due November 15)	- 7.5%
Mid-term test #2 (November 6)	- 15%
Final exam	- 30%

All assignments are expected to be independent efforts.

Recommended

Text

The following books will be placed on reserve in the Agriculture (William R. Newman) Library:

Dairy Cattle Science by M.E. Ensminger; Large Dairy Herd Management by Van Horn and Wilcox; NRC Nutrient Requirements for Dairy Cattle 2001. Recommended documents will also be available at the Web site: <http://home.cc.umanitoba.ca/~plaizier> and in the Cheung Room (234).

Academic Regulations and

Policy

The University of Manitoba 2017-2018 Undergraduate Calendar states that: “Plagiarism or any other form of cheating in examinations or other term tests (e.g., crib notes) is subject to serious academic penalty (e.g. suspension or expulsion from the faculty or university). A student found guilty of contributing to cheating in examinations term assignments is also subject to serious academic penalty.” For more information, please refer to the University of Manitoba 2017-2018 Undergraduate Calendar.

Subjects for presentations

How can we dispose of culled cows?

The future of supply management in the dairy industry

The value of manure as fertilizer

The Manitoba dairy industry and the environment

Infectious disease (Johne's disease and leucosis): the problem and possible solutions

Strategies to optimize longevity of dairy cows.

Improving reproductive performance

Enhancing milk quality

VMS/Robots

Preventing metabolic diseases