

VE129
Introductory Nutrition
3 Credits

Instructor: Melissa Hall
780 853 8487

Original Developer: Dr. Crystal Mullen

Current Developer: Melissa Hall

Reviewer: Dr. Robyn Rodgers

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2602 - 59 Avenue, Lloydminster, Alberta, Canada T9V 3N7. Ph: 780 871 5700
5707 College Drive, Vermilion, Alberta, Canada T9X 1K5. Ph: 780 853 8400
Toll-free in Canada: 1 800 661 6490



VE129 Version: 7



Introductory Nutrition

Calendar Description

Students learn the principles and practices of nutrition as they apply to both large and small animals. Each nutrient class is studied in relation to its function, deficiency and requirement in the body. Nutrient requirements for maintenance, growth, and production are emphasized.

Rationale

This is a required course in the Veterinary Medical Assistant program. VMA's need to have an understanding of the nutritional principles involved in the growth, health and performance of animals. They also need to be familiar with the basic guidelines of nutritional management used to prevent and treat disease in cats and dogs.

Prerequisites

None

Co-Requisites

None

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. define and explain the basic components of nutrition, including carbohydrates, fats, proteins, vitamins, minerals, and water.
2. explain how each nutrient class relates to its function, deficiency and requirement in the body.
3. list and describe common sources of nutrients in diets and rations for large and small domestic species.
4. list and explain the 5 life cycle phases of domestic animals
5. list the nutritional requirements for each life cycle phase of the common domestic animals.
6. correctly read and explain the information on pet food labels and demonstrate an understanding of pet food regulations.

7. describe common types of pet foods and state the characteristics and possible risks of current pet food trends and alternative formulations.
8. describe common small animal nutraceuticals and supplements used in veterinary medicine.

Resource Materials

Required Text(s):

Vanhorn, Beth, and Robert W. Clark. *Veterinary Assisting: Fundamentals and Applications*. Delmare Cengage Learning, 2011.

Reference Text(s):

Kellems, Richard. O., and D. C. Church. *Livestock Feeds and Feeding*. 6th ed., Prentice Hall, 2010. http://www.library.ualberta.ca/permalink/opac/4430447/LAKELND_LLWEB

Wortinger, Ann. *Nutrition and Disease Management for Veterinary Technicians and Nurses*. Wiley-Blackwell, 2015.

Conduct of Course

This lecture course consists of 3 hours of lecture weekly for a total of 42 hours.

Evaluation Procedures

Unit Tests	30%
Midterm	20%
Assignments/Quizzes/Projects	20%
Final Exam	30%

The instructor reserves the ability to hold pop quizzes throughout the semester with no prior notification.

Grade Equivalents and Course Pass Requirements

A minimum grade of D (50%) (1.00) is required to pass this course.

Letter	F	D	D+	C-	C	C+	B-	B	B+	A-	A	A+
Percent Range	0-49	50-52	53-56	57-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	1.00	1.30	1.70	2.00	2.30	2.70	3.00	3.30	3.70	4.00	4.00

Students must maintain a cumulative grade of C (GPA - Grade Point Average of 2.00) in order to qualify to graduate.

This course must be successfully completed to continue on to 2nd semester courses.

Attendance

Classroom and laboratory attendance is considered vital to the learning process and as significant to the students' evaluation as examinations and reports.

- a. Students having a combination of excused and/or unexcused absence of 20 percent or higher for the scheduled course hours will be required to withdraw and will automatically receive a "RW" (required withdrawal) for the course, regardless of any other evaluation results. (RW is a failing grade.)
- b. An excused absence is one that is verified with your Instructor. Verification should be prior to the absence or the next class day following the absence. Verification of the absence may take the form of a note from your doctor/College nurse regarding illness, or a note from another Instructor regarding a field trip or other activity, or authorization by your Instructor. An unexcused absence is anything NOT verified by the instructor prior to the absence or the next class day following the absence.

NOTE: Any exceptions to the above attendance policy (e.g. timetable conflicts, work-related issues) must be approved in writing by the Department Chair prior to the beginning of the course.

It is the students' responsibility to know their own absentee record.

Normal hours are 8:30 a.m. to 6:30 p.m., with potential for evening courses, exams or extended field trips. Students are expected to be available for classes during these times.

Course Units/Topics

Lecture (42 hours)

1. Basics of Nutrition
2. Feed and Feedstuffs for Livestock
3. Equine Nutrition
4. Bovine Nutrition – Beef and Dairy
5. Ovine Nutrition
6. Pet Food Labels and Regulation
7. Pet Food Types and Trends
8. Common Nutraceuticals and Supplements for Small Animals
9. Canine & Feline Life Stage Nutrition
10. Canine & Feline Feeding Behaviours



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2602 - 59 Avenue, Lloydminster, Alberta, Canada T9V 3N7. Ph: 780.871. 5700
5707 College Drive, Alberta, Canada T9X 1K5. Ph: 780.853.8400
Toll-free in Canada: 1 800 661 6490E-mail: admissions@lakelandc.ab.ca