



## VETT 300 Clinical Veterinary Nutrition

**CRN 28057**

Spring 2024

In-Person Based Course

### **INSTRUCTOR INFORMATION**

Instructor: Nancy Turner, DVM

Office Location: Veterinary Technology Building or Ag Sciences Office

Office Hours: by appointment via email

University Email Address: Nancy.Turner@tamuc.edu

Preferred Form of Communication: email

Communication Response Time: 24 hours

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

#### **Reference Texts:**

Small Animal Clinical Nutrition, 5th Edition by Michael S. Hand, Craig D. Thatcher, Rebecca L. Remillard, Phillip Roudebush, Bruce J. Novotny

McCurnin's Clinical Textbook for Veterinary Technicians and Nurses, 10th Edition.  
Bassett, Beal, Samples

Additional Texts and/or Materials: There will be links to images, videos, and other supplemental materials.

Software Required: Any Internet vehicle including Google Chrome, Firefox, etc that follows the below-supported browsers. Also, lecture materials, supplemental worksheets, videos, and slides will be available which will need to be opened using Adobe PDF, Microsoft Word, and Microsoft PowerPoint.

### **Course Description**

This course is designed to introduce students to applied animal nutrition. The course covers basic nutrition for both ruminant and simple-stomach animals. This course will include, but not be limited to: the basic elements of nutrition including the major categories of nutrients, and their sources, digestion, and metabolism, interpretation of pet food labels, homemade, raw, and commercial diets as well as therapeutic/critical care nutrition for dogs and cats. Both large and small animal feeds and feeding will be covered with companion animal nutrition as the focus. Common nutritional diseases and calculating the amount of food to feed dogs and cats during various stages of the life cycle will

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also be covered. Prerequisites: VETT 100, CHEM 1305 or CHEM 1311, VETT 305 & VETT 307 or ANS 319.

### **Student Learning Outcomes**

1. The student will list and discuss the basic energy and non-energy-producing nutrients, including their sources, functions, similarities, and differences, whether or not they are essential, and conditions that develop due to either excess or inadequate availability of these nutrients.
2. The student will describe the role nutrition plays in disease processes, be able to assess an animal's body condition score and discuss nutrient requirements and metabolism in feeding for normal and therapeutic nutritional needs, as well as the different life stages in dogs and cats.
3. The student will define various nutritional terms, and correctly utilize these terms in writing.
4. The student will list the legal requirements for pet food labels. Analyze pet food label information and discuss the meaning and implications obtained from this analysis. Calculate dietary requirements for dogs and cats based on various scenarios.
5. The student will be able to understand the necessity for nutritional supplements and additives and their importance in veterinary nutrition.
6. The student will be able to identify substances that when ingested result in toxicity, including common poisonous plants and substances that cause toxicity.
7. The student will be able to list clinical signs for multiple diseases caused by nutritional concerns and ones that can be properly treated with nutritional aid. This will include being familiar with veterinary diets that can be utilized in the treatment of these diseases.
8. The student will describe the special considerations, variables, and factors affecting energy requirements when feeding various livestock for specific productive purposes, including the relationship between productivity and profitability in livestock production and the identification of common grains and forages.
9. The student will discuss the role of a veterinary technician as a veterinary team member in educating clients on their pet's nutritional needs.

### **COURSE REQUIREMENTS**

#### Minimal Technical Skills Needed

Examples include: Using the learning management system, using Microsoft Word and PowerPoint, using presentation and graphics programs, etc.

### **Student Responsibilities or Tips for Success in the Course**

#### Student Responsibilities & Tips For Success In The Course

Examples include: Regularly logging into the course website, approximately 2 hours of weekly study and 2 hours of participation time expected. These anticipated times are an estimation and may require more or less.

- The student will be held responsible for being familiar with all material presented in lectures, readings, and classmates' presentations.
- The student is expected to participate in all course activities and complete all examinations and course assignments on time.
- Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time via email and on the *d2L website*. It is the student's responsibility to be informed of these changes. It is the student's responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).

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- Communication: The instructor will communicate with students through email and D2L announcements.

### 1. Participation/ Attendance

- You are expected to come to class.
- You are expected to contribute to class discussions and activities
- It is recommended that you log in daily to ensure you do not miss any due dates, quizzes or assignments.

### 2. Assignments/ Worksheets

- There will be a variety of worksheets/assignments/homework/projects etc.
- Late work: Work will be due at a specific date and time which is clearly indicated.
- NO LATE WORK WILL BE ACCEPTED!

### 3. Case Studies/Reports:

- As is a common practice in veterinary medicine we will have discussions on specific cases and reports.
- When case reports are discussed you will be expected to present your case effectively and highlight important material for your classmates. You will be expected to actively participate during your classmates' presentations as well by asking questions and through active listening.
- This type of activity is often done online on the Veterinary Support Personnel Network (VSPN) and Veterinary Information Network (VIN) and in a face-to-face format in veterinary technology schools, veterinary schools, internships, and residency programs. It is a crucial learning tool in veterinary medicine.

## **TECHNOLOGY REQUIREMENTS**

### LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

## **ACCESS AND NAVIGATION**

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

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Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## **COMMUNICATION AND SUPPORT**

If you have any questions or are having difficulties with the course material, please contact your Instructor.

### Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

### Interaction with Instructor Statement

The instructor's communication response time and feedback on assessments will be as quickly as possible.

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### Course Specific Procedures/Policies

Late work will not be accepted.

### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

## **University Specific Procedures**

### Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: <https://www.britannica.com/topic/netiquette>

### TAMUC Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01.

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

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## Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03  
Undergraduate Student Academic Dishonesty Form

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

Graduate Student Academic Dishonesty Form

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

## Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: Office of Student Disability Resources and Services

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

## Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

## Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and

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are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

### A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit [www.tamuc.edu/counsel](http://www.tamuc.edu/counsel)

### Lecture Plan and Summary of Course Assignments: \*\* SUBJECT TO CHANGE

#### Course Assignments and Examinations:

Week #	Topic Title	Reading	Assignments
Week 1	Integration of Nutrition in Clinical Practice	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>
Week 2	Basic Nutrition Overview	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>
Week 3	Determining Energy Requirements	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>
Week 4	Nutritional and Energy Requirements for Performance	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>
Week 5	Nutritional Management of Body Weight	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>
Week 6	Reading and Using Pet Food Labels and Product Guides	Variable	<ul style="list-style-type: none"> <li>● Reading</li> <li>● Discussion</li> <li>● Case Report</li> </ul>

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Week 7	Feeding the Healthy Dog and Cat	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 8	Nutraceuticals, Dietary Supplements and Toxins	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 9	Nutritional Management of Hepatobiliary, Urinary, and Kidney Diseases	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 10	Nutritional Management of Endocrine, Cardiovascular & Oncological Diseases	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 11	Nutritional Management of Orthopedic and Skin Diseases	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 12	Nutritional Management of Gastrointestinal and Pancreatic Diseases	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 13	Exotic Animal Nutrition	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 14	Comparative Nutritional Physiology	Variable	<ul style="list-style-type: none"> <li>• Reading</li> <li>• Discussion</li> <li>• Case Report</li> </ul>
Week 15	Retention Assessment	Final	<ul style="list-style-type: none"> <li>• Final</li> </ul>

**GRADING SCALE:**

Letter Grade	% of Total Possible Points	Description Legend	Quality Points
A	90-100%	Excellent	4.00
B	80-89.9%	Good	3.00
C	70-79%	Satisfactory	2.00

\* Anything below a “C” (<70%) is not passing for a Veterinary Biomedical Technology course.

D	60-70%	Unsatisfactory	1.00
F	0-60%	Failure	0.00

Professionalism and Attendance	50 points
Assignments/ Case Studies/Reports/Quizzes	500 points
Rx Diet Research/Project	100 points
Exams (4 x 50 points)	200 points
Final	150 points

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Total	1000 points
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