

Topics in Comparative Animal Nutrition

ANSC 6010 - Fall 2014

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Classes will be held in the **APS Room #002 on Tuesdays 2:30 – 5:00 pm**

Course objectives will enable students to critically:

1. Assess current literature in comparative animal nutrition;
2. Evaluate ration formulations for agricultural companion and captive animal species;
3. Solve practical feeding problems by applying basic principles;
4. Develop professional conduct and accountability.

| <i>Month</i> | <i>Date</i> | Schedule |
|--------------|-------------|---|
| September | 9 | Course outline and assignment of case studies |
| | 16 | Skype lecture: Comparative Digestive Physiology Dr. Jim Croom, N.C. State University |
| | 23 | Approaches to feeding captive animals within zoos Dr. Eduardo Valdes, Disney Animal Kingdom (case study discussions) |
| September | 30 | Approaches to feeding dogs and cats Dr. Kate Shoveller, Mars |
| October | 7 | Natural Histories – (Case Studies Animals) |
| | 14 | Midterm Break |
| | 21 | Paper reviews Mini-review due Nov 11, 2014 |
| | 28 | Papers reviews |
| November | 4 | Papers reviews |
| | 11 | Case Study work session |
| | 18 | Approaches to feeding goats and rabbits: Matt Schotsman , Floradale Feedmill |
| | 25 | Case Study: presentations |

| | Marks |
|------------------------------------|--------------|
| Paper critique and presentation | 15 |
| Mini-review | 15 |
| Natural History Presentation | 10 |
| Case study report and presentation | 60 |

Guidelines for preparation of case study report:

1. Present all the information relevant to making an improvement or a change to the feeding program. The report should be organized into sections such as:
 - i. Introduction (scope of the problem and literature review),
 - ii. Feed Analysis and Ration Evaluation,
 - iii. Changes to the Feeding Program and Managerial Suggestions.
 - iv. The report should contain a concise summary.

2. The case study is worth 60% of the final grade and will be marked as follows (out of 100%) - Logic and Structure of the Case Study Report including depth of research and completeness of the literature review; critical analysis of diet and feeding; suggestions for improvement; neatness, organization, grammar/spelling etc. (75%) and Presentation in class (& via Skype with Dr Eduardo Valdes) (25%).

Paper Reviews: Students will be assigned to lead a critique and discussion on one original research paper. Students will choose their topic papers in discussion with the course co-ordinator. The paper should be chosen from peer-reviewed journals. Papers for the class presentations and discussions should be selected and submitted to the course co-ordinator for posting to students the previous week to allow enough time for a thorough reading. It is essential that all students read the papers that will be discussed in the upcoming class.

When presenting research papers, the student will need to provide some carefully selected background information on the topic, i.e., potentially from other sources than the paper itself, followed by a description of key methodology and results, a critical assessment of the methods and conclusions, the contributions of the papers to our understanding of the field, and strengths and weaknesses of the paper. The instructor will clarify concepts and direct discussions when appropriate. Each student paper presentation will be about 30 minutes with 10 minutes question/discussion period. Student presentations will be posted as PDF files after the presentations in class for further references. The mini-review paper will be approximately 3 pages without including references. The mini-review paper is to review background and advances on the topic area based on a series of relevant studies. Typically, the mini-reviews are based on 3-5 original research papers and a key review paper. The *Journal of Nutrition* format will be used for preparing the mini-reviews. The mini-review papers are to be typed with 1" margin space around and double line spacing by using 12 point font. A cover page is required to include student's name and ID. A hard copy and electronic copy of the mini-review paper is due for submission.

Schedule for Paper Reviews
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| Date | |
|-------------------|------------------|
| October 14 | HERBIVORE |
| | 1) |
| | 2) |
| | 3) |
| | 4) |
| October 21 | OMNIVORE |
| | 5) |
| | 6) |
| | 7) |
| | 8) |
| October 28 | CARNIVORE |
| | 9) |
| | 10) |
| | 11) |
| | 12) |