

# AGRI 3002 ANIMAL NUTRITION AND FEEDING

**Credit Points** 10

**Legacy Code** 300853

**Coordinator** Ben Moore ([https://directory.westernsydney.edu.au/search/name/Ben Moore/](https://directory.westernsydney.edu.au/search/name/Ben%20Moore/))

**Description** Animal nutrition and feeding is fundamental to many aspects of animal production and wildlife systems. This subject aims to provide students with knowledge of nutrient requirements for different types of animals and the nutrient composition of common feeds. Students will evaluate and formulate rations to meet a range of animal requirements at different stages of growth, reproduction, lactation and production.

**School** Science

**Discipline** Animal Husbandry

**Student Contribution Band** HECS Band 1 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 3 subject

**Equivalent Subjects** AGRI 3003 - Animal Nutrition and Feeding

## Restrictions

Successful completion of 120 credit points.

## Assumed Knowledge

A basic understanding of animals and biology.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Describe the nutrient requirements of different types of animals at different stages of the life cycle
2. Articulate the effect of different types of digestive systems on feed and nutrient requirements
3. Analyse nutrient composition of common feeds for a range of animal species
4. Describe the factors affecting feed intake
5. Formulate and evaluate rations and supplements for a range of different animal species
6. Identify nutrient deficiencies, excesses and imbalances
7. Conduct and interpret laboratory analysis of feedstuffs
8. Describe common feeding related problems
9. Research and write professional reports

## Subject Content

Nutrients - carbohydrates, lipids, protein, minerals, vitamins and water  
Nutrient requirements of different animal species at different stages of the life cycle

Regulation of feed intake such as hormones, BMR and palatability

Nutrient composition of common feeds, pastures and specialised feeds

Rations formulation for different animal species at different stages of the life cycle

Common feed and nutrition related problems

Interpreting feed and supplement labels

Special requirements of animals including performance animal, wild and zoo animal nutrition

Recent advances in nutrition

Research and write professional reports

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

| Type        | Length                                                             | Percent | Threshold | Individual/ Group Task | Mandatory |
|-------------|--------------------------------------------------------------------|---------|-----------|------------------------|-----------|
| Quiz        | 1 hour per quiz (conducted online, in own time over 1 week period) | 20      | N         | Individual             | N         |
| Proposal    | 15 minutes                                                         | 10      | N         | Group                  | N         |
| Report      | 2,000 words                                                        | 20      | N         | Individual             | N         |
| Presentatio | 20 minutes                                                         | 50      | N         | Group                  | N         |

## Prescribed Texts

- McDonald, P, Greenhalgh, JFD, Morgan, CA, Edwards, R, Sinclair, L & Wilkinson, R 2011, Animal nutrition, 7th edn, Prentice Hall/Pearson, Harlow, England.
- Hynd, P (2019) Animal Nutrition: From Theory to Practice. CSIRO Publishing.

## Teaching Periods

## Autumn (2025)

### Hawkesbury

#### On-site

**Subject Contact** Ben Moore ([https://directory.westernsydney.edu.au/search/name/Ben Moore/](https://directory.westernsydney.edu.au/search/name/Ben%20Moore/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=AGRI3002\\_25-AUT\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=AGRI3002_25-AUT_HW_1#subjects))