**Sample Course Outline**

Animal Production Systems

General Year 11

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# Sample course outline

# Animal Production Systems – General Year 11

## Unit 1 and Unit 2

#### Semester 1 – Unit 1

| **Week** | **Key teaching points** |
| --- | --- |
| 1–3 | Structure of the syllabus* course outline
* assessment outline

Systems ecology* structure of natural, urban and agricultural ecosystems
* natural resources used in agriculture, including soils, water and air
* water cycles in landscapes
 |
| 4–6 | Animal structure and function* life cycles and stages of growth and development
* basic structure and function of reproductive systems in selected livestock
* basic structure and function of digestive systems in ruminants and non-ruminants
 |
| 7–9 | Animal nutrition* nutritional requirements, including proteins, carbohydrates, minerals and vitamins
* feed requirements for intensive and extensive systems
* quality and quantity of water supply
 |
| 10–13 | Animal health* signs of good and ill health (symptoms) and their causes
* the five freedoms of animal welfare
* identification of selected pests and diseases and their impact
* interpretation of information provided on labels for safe and effective use of registered products
* categories of pests and diseases, including microbial, metabolic, metazoal and hereditary
* risks of zoonoses
* interpretation of chemical labels to determine which product to select
* application of codes of practice concerning chemical use
 |
| 14–15 | Breeding and improvement * natural selection and animal adaptation
* major breeds for animal production
* selection of animal types for specific purposes, including meat, milk, fibre
 |

#### Semester 2 – Unit 2

| **Week** | **Key teaching points** |
| --- | --- |
| 1–2 | Breeding and improvement * breeds and characteristics
* breeds and their origins, and development into current types
 |
| 3–5 | Investigating animal production* conduct an investigation, considering aspects of experimental design
* interpret data, including calculating means
* present data using appropriate methods
* draw conclusions based on experimental data
 |
| 6–8 | Economics, finance and markets * farming as a business
* identify resources used in production, including land, labour, capital
* recording production costs and incomes
* identification of inputs and outputs
* farming systems and enterprises
* available markets
* calculation of costs, returns and profits
 |
| 9–11 | Sustainable production* efficient use of resources without compromising the environment
* renewable and non-renewable resources
* identification of market requirements to be met for selected products
* the role of quarantine in preventing pests, diseases and weeds
* prevention of the spread of pests, diseases and weeds to natural ecosystems
 |
| 12–14 | Produce for purpose * identify types and features of animal enterprises
* select equipment and resources when working with animals
* comply with occupational safety and health requirements (OSH)
* monitor the physical environment, including the weather
* develop a calendar of operations for a selected animal enterprise
* identify quality criteria for selected animal products
* monitor growth and development of animals
* monitor the impact of the weather on animal enterprises
* perform routine care of animals
* select and use equipment for a given enterprise
 |
| 15 | Test week – End of Year test |