**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 |