



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 <ul style="list-style-type: none"> • course outline • assessment outline Systems ecology <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • breeds and characteristics • breeds and their origins, and development into current types
3–5	Investigating animal production <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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