SAMPLE SCOPE & SEQUENCE

Agricultural Systems, LEVEL 3

Learning Design

Below is a suggested sequence of content for Agricultural Systems AGR315117.

This is an example only; to be used to support teachers to develop their own scope and sequence documents and associated assessment matrices that meet the learning needs of their learners.

NOTE: This course may have been amended since the development of this sample teacher resource in 2018. Please visit the TASC website for current version of the course.

Term 1

Week	Unit	Topic	Criteria Assessed
1		Introduction and course overview	
2	1	Systems thinking What is systems thinking? Open and closed systems. Why use systems thinking? What processes and tools can we use?	
3	1	Systems thinking Application of tools and processes to simple observable systems Start journal (digital or on paper) – outline structure and purpose	
4	2	Ecosystems Plant and animal production and soil, nutrients and water Start planning for Plant or Animal Trial	
5	2	Ecosystems Plant and animal production and factors contributing to degradation of soil and water Begin analysis of ecosystems research study	

Week	Unit	Topic	Criteria Assessed
6	2	Ecosystems Plant and animal production and sustainable resource management and Australian variable climate Continue analysis of ecosystems research study	
7	2	Ecosystems Complete analysis of ecosystems research study	Work requirement Unit 2 Research Study C 1 2 5 7
8	5	Introduction to agricultural technologies Biosecurity Introduce the concept of engineering systems	
9	3	Plant production systems Plant or animal trial started	
10	3	Constraints in plant production systems	
Break			
Break			

Term 2

Week	Unit	Topic	Criteria Assessed
1	3	Managing plant production systems	
2	5	Agricultural technologies – biotechnology and precision agriculture Begin Research into Technological Developments	
3	3	Plant production systems Technologies used to manage plant production systems	
4	3	Plant production systems Engineering systems and plant production	
5	3	Plant production systems Plant production, technology and engineering minor case study	C 3 6 8

Week	Unit	Topic	Criteria Assessed
6	5	Agricultural technologies – engineering design cycle, engineering systems Complete and present Research into Technological Developments	Work requirement Unit 5 Research Study C 1 5 6 9
7	4	Animal production systems Animal nutrition	
8	4	Animal production systems Animal growth and development Introduce reproduction	
9	6	Agribusiness The farm as a business Decision making processes and management strategies Review and interpret current data sets from plant or animal trial, make informed changes to data collection	
10	4	Animal production systems Animal reproduction and genetics	
Break			
Break			

Term 3

Week	Unit	Topic	Criteria Assessed
1	4	Animal production systems Animal pest and diseases Animal ethics and welfare	
2	4	Animal production systems Technologies used to manage animal production Engineering systems and animal production	
3	4	Animal production systems Animal production, technology and engineering minor case study	C 4 6 8
4	6	Agribusiness Business design Identifying subject and scope for case study	

Week	Unit	Topic	Criteria Assessed
5	5	Agricultural technologies Engineering systems overview Identifying problems with engineering solutions	
6	5	Agricultural technologies Engineering systems detailed case study Applying the design cycle Identifying a specific problem, you will solve with an engineering solution	
7	5	Agricultural technologies Developing an engineering solution	
8	5	Agricultural technologies Finalising the engineering solution	
9	5	Agricultural technologies Compilation and creation of Project portfolio	C 6 8 9
10	6	Agrifood case study planning Data collection complete from plant and/or animal trial	
Break			
Break			

Term 4

Week	Unit	Topic	Criteria Assessed
1	6	Agrifood – case study	
2	6	Agrifood – case study Plant or animal trial complete	
3	6	Agrifood – case study	
4	6	Agrifood – case study completed	C 2 5
5			
6			
7			
8			
9			

Week	Unit	Topic	Criteria Assessed
10			
Break			
Break			