

# AGRI 2001 AGRONOMY

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**Credit Points** 10

**Legacy Code** 300863

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

**Description** This unit enables students to develop understanding of basic crop and pasture agronomy including plant identification, crop/pasture establishment, growth, development, adaptation, plant protection, and grazing management. Students manage a crop in the field and a pot trial in the glasshouse and interact with researchers and industry professionals in understanding broad principles involved in the production and management of crops, pasture and animal production issues. The practical sessions enable students to apply the management principles and become familiar with various measuring techniques.

**School** Science

**Discipline** Agricultural Science

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

Check your HECS Band contribution amount 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 2 subject

**Equivalent Subjects** LGYA 6118 - Agronomy

## Learning Outcomes

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

1. Describe and explain the key concepts of pasture and crop agronomy
2. Recognise the major crop and pasture species in Australian agriculture
3. Manage crops in the field and glasshouse
4. Use equipment to measure plant growth and development
5. Calculate fertiliser needs for potential production
6. Estimate water requirements for improved crop growth and development
7. Relate grazing management issues to animal production
8. Plan and design an experiment to determine the response of a crop to different levels of nutrient

## Subject Content

1. Physiology and adaptation of crop plants
2. Plant nutrition
3. Canopy structure - Photosynthesis and respiration
4. Potential yield, soil - crop/pasture - water relations
5. Plant protection - weeds - Competition and plant community relationships
6. Grain development
7. Grazing management
8. Experimental design and data analysis

Teaching Periods