

MJD-AGSCI Agricultural Science

Major information

Code	MJD-AGSCI
Title	Agricultural Science
Undergraduate degree	BSc
Broadening guidance	All students studying towards a Bachelor's Degree at UWA are required to Broaden their studies by completing a minimum of four units (24 points) of study outside their degree specific major. Broadening is your opportunity to explore other areas of interest, investigate new disciplines and knowledge paradigms and to shape your degree to suit your own aspirations and interests. Many of you will be able to undertake more than this minimum amount of broadening study and we encourage you to do so if this suits your aspirations. Over the next few months you will find here some broadening suggestions related to your degree-specific major. While we know that many students value guidance of this sort, these are only suggestions and students should not lose sight of the opportunity to explore that is afforded by your Broadening Choices. Advice can also be sought from your Allocated Student Advising Office.
School	Agriculture and Environment
Board Of Studies	Life, Health and Natural Sciences
Responsible Organisational Entity	Agriculture and Environment
School Collaborations	{"School Collaborations" blank}
Coordinator	Dr Judith Lichtenzveig {00053386}
Availability	Available for new enrolments
Approved	date unknown
First year of offer	2012
Structure	4+4+4

Major type

Type of major	Single major
Degree-specific major?	True
Second major?	True
Undergraduate Diploma (graduate-only entry)?	True
Name of Undergraduate Diploma (graduate-only entry)	Agricultural Science
Major has end-on honours?	True
Specify the End-On Honours Specialisation	HON-AGSCI Agricultural Science

Details

About this major	Australia's agricultural industry is a key part of the world's food supply system. The challenges of a rapidly growing population, climate change, and the limitations of land and freshwater all impact the ability of agriculture to meet the demand for food, fibre and fuel. As part of the Agricultural Science major, students investigate how to address this demand by developing an understanding of the complex factors that shape agricultural systems. Agricultural Science provides the research, technology and information for the sustainable and ethical development of the agricultural industry. Your studies will include soil science, genetics, cropping systems, soil-plant interaction, livestock production, agricultural economics and grain marketing. There will be up to two field trips to farms and research sites.
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Outcomes

#	Outcome
1	demonstrate knowledge of the biology of key plants, animals and other organisms and the influence of climate, soils and farm management practices on these components
2	demonstrate an understanding of how agricultural systems and are influenced by socioeconomic issues
3	critically apply their knowledge and skills to improve production, profitability and environmental performance
4	demonstrate critical thinking to be able to respond to challenges in a scientific manner in response to issues such as climate change and an increasing world population
5	demonstrate competency in laboratory practice, fieldwork study, report writing, oral presentation and team work skills suited to gain employment in the field of Agricultural Technology

Why offer the proposed course

Rationale for offering the major

{"Rationale for offering the major" blank}

Field of Education

Broad Field of Education 05 - Agriculture, Environmental and Related Studies

Narrow Field of Education 0501 - Agriculture

Detailed Field of Education 050100 - Agriculture

Rules

Prerequisites Mathematics Methods ATAR or Mathematics Applications ATAR with a mathematics unit taken in the first year. Students without ATAR mathematics will take two first year mathematics units. Chemistry ATAR or an additional chemistry unit taken in the first year.

Corequisites Nil.

Incompatibilities Nil.


Suggested Majors that can be taken by the student to compliment this major MJD-AGTEC Agricultural Technology MJD-AGBUS Agribusiness MJD-GENET Genetics MJD-BOTNY Botany MJD-ZOOLY Zoology

Requirements for Undergraduate Diploma (graduate-only entry) Nil.

Unit sequence

Level 1

 Take all units (24 points):			
AGRI1001	Feeding the World	6 points	✔ Active
BIOL1131	Plant and Animal Biology	6 points	✔ Active
SCIE1104	Science, Society and Data Analysis	6 points	✔ Active
SCOM1101	Communicating Science	6 points	✔ Active


 Bridging units must be successfully completed within the first 48 points of study. Students who have not achieved a scaled mark of at least 50 in Mathematics Methods ATAR or equivalent or higher are required to complete SCIE1500. Students who have not achieved a scaled mark of at least 50 in Mathematics Applications ATAR or equivalent or higher are required to complete MATH1720 and SCIE1500.

Note: Students who have completed MATH1721, are not required to complete SCIE1500.

Students who have not achieved a scaled mark of at least 50 in Chemistry ATAR or equivalent or higher are required to complete CHEM1003.


CHEM1003	Introductory Chemistry	6 points	✓ Active
MATH1720	Mathematics Fundamentals	6 points	✓ Active
SCIE1500	Analytical Methods for Scientists	6 points	✓ Active

Level 2

 Take all units (24 points):

AGRI2201	Pasture and Livestock Systems	6 points	✓ Active
ENVT2236	Soil Science	6 points	✓ Active
GENE2250	Principles of Inheritance	6 points	✓ Active
PLNT2201	Plants in Action	6 points	✓ Active

Level 3

 Take all units (24 points):


ANIM3306	Clean, Green and Ethical Animal Production	6 points	✓ Active
ECON3300	Agricultural Economics and Marketing	6 points	✓ Active
ENVT3060	Soil-Plant Interactions	6 points	✓ Active
SCIE3314	Crops and Cropping Systems	6 points	✓ Active

Mapping of outcomes

Outcomes mapping document URL <https://uniwa.sharepoint.com/sites/curriculummapping/SitePages/Home.aspx>

Rules met within major? True

History and committee endorsements/approvals

Event	Date	Outcome
 Academic Council		Approved Notes: Imported from CAPS/Handbook during 2012.

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