

R = Residential School	N/A = Not available externally	Y = First year available externally	Vol = Voluntary	TBA = To be advised
To choose an elective, all students should consult the full program lists on the web at <a href="http://www.uq.edu.au/study/">http://www.uq.edu.au/study/</a> Some courses may have Residential School requirements.				

## Bachelor of Applied Science – External – Extended Majors

QTAC Code for all: 780169 (Gatton) Program Code: 2240

### Equine Science Extended Major

Academic Advisor: Dr Judy Cawdell-Smith, email: [j.cawdell-smith@uq.edu.au](mailto:j.cawdell-smith@uq.edu.au) or  
Dr Mark Hohenhaus, email: [m.hohenhaus@uq.edu.au](mailto:m.hohenhaus@uq.edu.au)  
Program Requirements: 30 days Industry Practice work experience

**Important Equine Information:** <http://www.animal.uq.edu.au/docs/Equine.Info.pdf>

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**

**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

**NOTE:** Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1014	2	Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
ANIM1003	2	Animal Structure & Function (R)	ANIM2011	2	Animal Physiology (R)
CHEM1002 <sup>C</sup> OR AGRC1010	2	Agricultural & Environmental Chemistry I <sup>C</sup> (R) OR Systems Thinking & Practice for Environmental & Agrifood Industries (R)	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	AGRC2013	2	Agricultural Microbiology & Gene Technology (R)
AGRC1010 <sup>C</sup> OR ANIM1006	2	Systems Thinking & Practice for Environmental & Agrifood Industries <sup>C</sup> OR Equine Husbandry & Equitation I <sup>C</sup>	AGRC1017 <sup>C</sup> OR Elective	2	Agricultural Mathematics <sup>C</sup> OR Elective (from BAppSc course list)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
AGRC2001	2	Agricultural Biochemistry (R)	ANIM3040	2	Animal Nutrition (R)
ANIM1006 <sup>C</sup> OR Elective	2	Equine Husbandry & Equitation I <sup>C</sup> OR Elective (from BAppSc course list)	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
ANIM2002	2	Animal Breeding & Genetics (R)	ANIM2039	2	Equine Stud Management (R)
ANIM3019	2	Animal Reproduction (R)	ANIM3006	2	Animal Health & Epidemiology (R)
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
ANIM3039	2	Equine Exercise & Rehabilitation (R)	ANIM3030	2	Equine Nutrition & Health (R)
	2	Elective (from BAppSc course list)		2	Elective (from BAppSc course list)

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## Parks and Wildlife Management Extended Major

Academic Advisor: Assoc Prof Marc Hockings, email: [m.hockings@uq.edu.au](mailto:m.hockings@uq.edu.au)

Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Senior Mathematics B

### AGRC1017 Agricultural Mathematics = Year 12 Mathematics B

NOTE: Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1017 <sup>C</sup> OR AGRC1014	2	Agricultural Mathematics <sup>C</sup> OR Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
AGRC1010	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R)	GEOM1960	2	Introduction to Remote Sensing & GIS
AGRC2019	2	Ecology of Natural & Agricultural Systems (R)	ENVM2504	2	Regulatory Frameworks in Environmental Management
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	AGRC2014	2	Problem Solving in Natural & Agrifood Systems
ENVM2519	2	National Park Management	ENVM2512	2	Fire Management (R)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
LPWM2003	2	Principles of Wildlife Management	AGRC1014 <sup>C</sup> OR Elective	2	Plant Utilization in Natural & Agricultural Environments <sup>C</sup> OR Elective (from BAppSc course list)
LAND2003	2	The Soil Environment	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
LPWM2008	2	Cultural Heritage Management	ENVM3506	2	International & National Conservation Policy
	2	Elective (from BAppSc course list)		2	Elective (from BAppSc course list)
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
ENVM3519	2	Visitors in Sensitive Environments	ANIM3018	2	Wildlife Technologies
	2	Elective (from BAppSc course list)	ENVM3517	2	Contemporary Protected Area Management

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## Plants Extended Major

Academic Advisor: Dr Doug George, email: [d.george@uq.edu.au](mailto:d.george@uq.edu.au) or Dr Margaret Johnston, email: [m.johnston@uq.edu.au](mailto:m.johnston@uq.edu.au)  
 Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**

**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

NOTE: Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1014	2	Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
AGRC1010	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R)	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
CHEM1002 <sup>C</sup>	2	Agricultural & Environmental Chemistry I (R) <sup>C</sup>	AGRC1017 <sup>C</sup>	2	Agricultural Mathematics <sup>C</sup>
	2	OR Elective (from BAppSc course list)	OR Elective	2	OR Elective (from BAppSc course list)
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	MGTS1960	2	Business Management I
LAND2003	2	The Soil Environment	STAT2701	2	Biometrics I (R)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
AGRC2009	2	Plant Production Technology	AGRC2020	2	Agronomy (R)
HORT2007	2	Horticultural Science (R)	PLNT2002	2	Plant Physiology (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
LAND3005	2	Soil-Plant Relationships	AGRC2013	2	Agricultural Microbiology & Gene Technology (R)
			OR		OR
			GNET2001	2	Agricultural Genetics & Biotechnology (N/A)
LAND3007	2	Land Use & Management (R)	PLNT2011	2	Plant & Environmental Health (R)
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
	2	Elective (from BAppSc course list)			Select #4 (2 courses) from:
	2	Elective (from BAppSc course list)	AGRC3002	2	Crop Production Science
			AGRC3006	2	Pasture Science
			HORT3003	2	Production Horticulture (R)
			HORT3008	2	Lifestyle Horticulture (R)

**Note:** AGRC3020 Industrial Placement (#4) is strongly recommended as an elective choice

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## Production Animal Science Extended Major

Academic Advisor: Dr John Gaughan, email: [j.gaughan@uq.edu.au](mailto:j.gaughan@uq.edu.au)

Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**

**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

**NOTE:** Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1014	2	Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
ANIM1003	2	Animal Structure & Function (R)	ANIM2011	2	Animal Physiology (R)
CHEM1002 <sup>C</sup> OR AGRC1010	2	Agricultural & Environmental Chemistry I (R) <sup>C</sup> OR Systems Thinking & Practice for Environmental & Agrifood Industries (R)	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	AGRC2013	2	Agricultural Microbiology & Gene Technology (R)
AGRC1010 <sup>C</sup> OR Elective	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R) <sup>C</sup> OR Elective (from BAppSc course list)	AGRC1017 <sup>C</sup> OR Elective	2	Agricultural Mathematics <sup>C</sup> OR Elective (from BAppSc course list)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
AGRC2001	2	Agricultural Biochemistry (R)	ANIM3040	2	Animal Nutrition (R)
ANIM2002	2	Animal Breeding & Genetics (R)	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
ANIM3019	2	Animal Reproduction (R)	ANIM2021	2	Animal Biometeorology (R)
	2	Elective (from BAppSc course list)	ANIM3006	2	Animal Health & Epidemiology
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
ANIM3013	2	Intensive Animal Production (R)	ANIM3011	2	Animal Production & Product Quality
	2	Elective (from BAppSc course list)	ANIM3012	2	Extensive Animal Production (R)

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To choose an elective, all students should consult the full program lists on the web at <http://www.uq.edu.au/study/>  
Some courses may have Residential School requirements.

## Rural Management Extended Major

Academic Advisor: TBA  
Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**  
**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

NOTE: Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1017 <sup>C</sup> OR AGRC1014	2	Agricultural Mathematics <sup>C</sup> OR Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
AGRC1010	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R)	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
CHEM1002 <sup>C</sup> OR ANIM1014	2	Agricultural & Environmental Chemistry I (R) <sup>C</sup> OR Animal Welfare, Behaviour & Handling (R)	MGTS1960	2	Business Management I
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014 <sup>C</sup> OR Elective	2	Animal Welfare, Behaviour & Handling (R) <sup>C</sup> OR Elective (from BAppSc course list)	AGRC1014 <sup>C</sup> OR Elective	2	Plant Utilisation in Natural & Agricultural Environments <sup>C</sup> OR Elective (from BAppSc course list)
ANIM1003	2	Animal Structure & Function (R)	ENVM1512	2	Ecological Economics
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
LAND2003	2	The Soil Environment	AGRC2020	2	Agronomy (R)
MKTG1502	2	Agriculture & Food Industry Marketing (Remote)	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
FINM3960	2	Investment Project Appraisal	ANIM2042	2	Livestock Management & Production (R-TBA)
ENVM3526	2	Systems Thinking, Systems Dynamics (For a Complex World) (Remote)	AGRC3002 OR AGRC3006 OR PLNT2011	2	Crop Production Science OR Pasture Science OR Plant & Environmental Health (R)
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
ANIM2041	2	Livestock Industries (R)	AGRC3026	2	Comparative International Farm Systems Case Studies
	2	Elective (from BAppSc course list)		2	Elective (from BAppSc course list)

Note: Students are required to have completed #12 of late year courses (level 3) in order to graduate. This means that students who don't have Senior Maths B and Senior Chemistry must choose AGRC3002 or AGRC3006 in 6<sup>th</sup> semester and the electives must be level 3 courses.

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## Veterinary Technology Extended Major

Academic Advisor: Mr Andrew Tribe, email: [a.tribe@uq.edu.au](mailto:a.tribe@uq.edu.au)

Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**

**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

NOTE: Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1014	2	Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
ANIM1003	2	Animal Structure & Function (R)	ANIM2011	2	Animal Physiology (R)
CHEM1002 <sup>C</sup>	2	Agricultural & Environmental Chemistry I (R) <sup>C</sup>	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
OR		OR			
Elective	2	Elective (from BAppSc course list)			
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
AGRC1010	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R)	AGRC1017 <sup>C</sup>	2	Agricultural Mathematics <sup>C</sup>
			OR		OR
			Elective	2	Elective VETS2001 recommended
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	ANIM3006	2	Animal Health & Epidemiology (R)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
AGRC2001	2	Agricultural Biochemistry (R)	ANIM3040	2	Animal Nutrition (R)
ANIM2002	2	Animal Breeding & Genetics (R)	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
ANIM3019	2	Animal Reproduction (R if studied externally)	VETS3018	2	Large Animal Health & Management *
VETS3009	2	Small Animal Health *	VETS3019	4	Practice Skills & Diagnostics *
VETS3020	2	Surgical Principles & Practice *		2	Elective AGRC2013 or VETS2001 <sup>C</sup> recommended
	2	Elective VETS3017 recommended			

\* These courses can only be undertaken in internal mode.

The final year of the Veterinary Technology Extended Major must be studied on a full-time internal basis and will be located at the Gatton Campus.

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## Wildlife Science Extended Major

Academic Advisor: Assoc Prof Peter Murray, email: [peter.murray@uq.edu.au](mailto:peter.murray@uq.edu.au)

Program Requirements: 30 days Industry Practice work experience

<sup>C</sup> If student does not have Year 12 Chemistry and / or Mathematics B

**AGRC1017 Agricultural Mathematics = Year 12 Mathematics B**

**CHEM1002 Agricultural & Environmental Chemistry I = Year 12 Chemistry**

NOTE: Please select the external offering of your courses when enrolling

2011 FIRST SEMESTER			2011 SECOND SEMESTER		
Code	#	Title	Code	#	Title
AGRC1015	2	Knowledge Management in Natural & Agrifood Systems (R)	AGRC1014	2	Plant Utilisation in Natural & Agricultural Environments
AGRC1018	2	Introductory Biology (R)	AGRC1019	2	Plant & Animal Biology (R)
2012 FIRST SEMESTER			2012 SECOND SEMESTER		
ANIM1003	2	Animal Structure & Function (R)	CHEM1003	2	Agricultural & Environmental Chemistry II (R)
CHEM1002 <sup>C</sup> OR AGRC1010	2	Agricultural & Environmental Chemistry I (R) <sup>C</sup> OR Systems Thinking & Practice for Environmental & Agrifood Industries (R)	AGRC1017 <sup>C</sup> OR Elective	2	Agricultural Mathematics <sup>C</sup> OR Elective (from BAppSc course list)
2013 FIRST SEMESTER			2013 SECOND SEMESTER		
ANIM1014	2	Animal Welfare, Behaviour & Handling (R)	ANIM2011	2	Animal Physiology (R)
AGRC1010 <sup>C</sup> OR Elective	2	Systems Thinking & Practice for Environmental & Agrifood Industries (R) <sup>C</sup> OR Elective (from BAppSc course list)	ANIM3006	2	Animal Health & Epidemiology (R)
2014 FIRST SEMESTER			2014 SECOND SEMESTER		
AGRC2001	2	Agricultural Biochemistry (R)	ANIM3018	2	Wildlife Technologies
ANIM2002	2	Animal Breeding & Genetics (R)	STAT2701	2	Biometrics I (R)
2015 FIRST SEMESTER			2015 SECOND SEMESTER		
AGRC2019	2	Ecology of Natural & Agricultural Systems (R)	ANIM3016	2	Captive Wildlife Husbandry
ANIM2005	2	Australian Terrestrial Vertebrates (R)	ANIM3040	2	Animal Nutrition (R)
2016 FIRST SEMESTER			2016 SECOND SEMESTER		
ANIM3019	2	Animal Reproduction (R)		2	Elective (from BAppSc course list)
LPWM2003	2	Principles of Wildlife Management		2	Elective (from BAppSc course list)