

**Course Plans 2022-2023**  
**B1391 Bachelor of Agricultural Science**

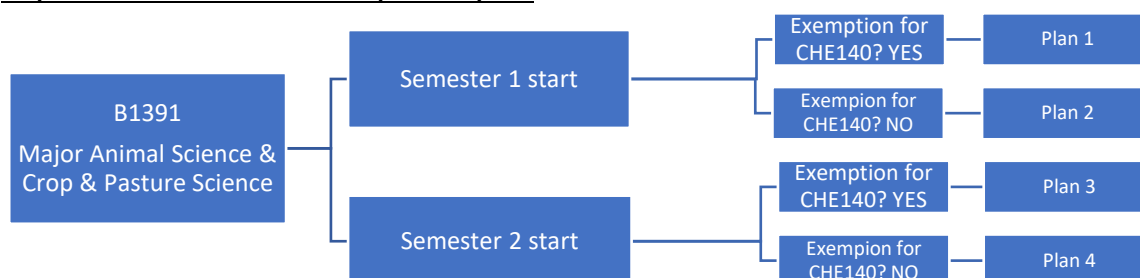
**Double major Animal Science & Crop & Pasture Science - 72 credit points**

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**Completing Your Course Plan**

**Step 1: Choose the correct course plan template**



**Step 2: Course Core Units**

Students must complete (or be exempt from) the following units: **BSC100, MAS180, CHE140, BIO152**

*Note: Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should apply for exemption for CHE140 Fundamentals of Chemistry.*

**Step 3: Animal Science Major**

Students must complete the following units: **BMS107, ANS101, VET272, ANS230, ANS221, VET380, ANS333, ANS337**

**Step 4: Crop and Pasture Science Major**

Students must complete the following units: **ANS105, ENV243, ANS207, ANS208, ANS309, ANS311, ANS312**

**Plus one of the following CPS Major Specified Electives: ENV303, BIO282, BIO257, MAS223, BIO246**

**Step 5: Career Learning Spine**

Students must complete **THREE** career learning spine units:

**MSP100** Career Learning: Managing Your Career -3 points (MURDOCH: S1-external, S2-external, SUM-external).

*NOTE – MSP100 ideally completed before specified electives*

Plus select **TWO** from the following list of Career Learning Spine Specified Electives:

- **MSP200** Building Enterprise Skills – 3 pts (MURDOCH: S1-external, S2-external)
- **MSP201** Real World Learning – 3 pts (MURDOCH: S1-external, S2-external, SUM-external, W-external, Y-external)  
*Note: Students may be able to do 2x MSP201 or MSP201 alternatives*
- **ANS302** Farm Placement – 3 pts *Alternative to MSP201* (MURDOCH: Y-placement) *NOTE- students should commence ANS302 in S1*
- **ANS303** Industry Tour – 3 pts *Alternative to MSP201* (MURDOCH: S2-internal) *Note – subject to availability and available to year 3 and year 4 students only*
- **VLS302** Professional Placements in Veterinary and Life Science (MURDOCH: S1-external, S2-external, SUM-external)  
*Note – subject to availability*

**Step 6: General Electives added to bring total credit points to 72 points (note maximum 30 credit points for Part 1 units)**

Recommended electives:

- **VET101** Sustainable and Ethical Animal Management) – 3pts (MURDOCH: S2-internal) - *recommended for students applying for transfer to veterinary science*

Note: A minor cannot be added/named on degree with double major at this point in time

**Step 7: Confirm your course plan contains all required units using checklist (final page)**

### Course Plan 1 – Semester 1 entry with CHE140 exemption

<b>Major Prerequisites: Chemistry Background</b>				
The following course plan applies for students that are <u>granted an exemption for CHE140</u> .				
<b>Semester 1</b>			<b>Semester 2</b>	
<b>Year 1</b>	<b>BSC100</b> Building Blocks for Science Students	<b>3</b>	<b>BIO152</b> Cell Biology	<b>3</b>
	<b>MAS183</b> Statistical Data Analysis	<b>3</b>	<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
	<b>ANS105</b> Agricultural Science & Food Production	<b>3</b>	<b>ANS101</b> Introduction to Livestock Science & Genetics	<b>3</b>
	Career Learning Spine or General Elective	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
<b>Year 2</b>	<b>VET272</b> Comparative Mammalian Biochemistry	<b>3</b>	<b>ANS221</b> Animal Structure and Function	<b>3</b>
	<b>ANS230</b> Animal Production Systems II	<b>3</b>	<b>ANS207</b> Crop & Pasture Science	<b>3</b>
	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS208</b> Crop Protection & Plant Biosecurity	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
<b>Year 3</b>	<b>VET380</b> Veterinary Nutrition & Animal Toxicology	<b>3</b>	<b>ANS337</b> Animal Industry Experience	<b>3</b>
	<b>ANS333</b> Animal Production Systems III	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>

### Course Plan 2 – Semester 1 entry (no CHE140 exemption)

<b>Semester 1</b>			<b>Semester 2</b>	
<b>Year 1</b>	<b>BSC100</b> Building Blocks for Science Students	<b>3</b>	<b>BIO152</b> Cell Biology	<b>3</b>
	<b>MAS183</b> Statistical Data Analysis	<b>3</b>	<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
	<b>CHE140</b> Fundamentals of Chemistry	<b>3</b>	<b>ANS101</b> Introduction to Livestock Science & Genetics	<b>3</b>
	<b>ANS105</b> Agricultural Science & Food Production	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
<b>Year 2</b>	<b>VET272</b> Comparative Mammalian Biochemistry	<b>3</b>	<b>ANS221</b> Animal Structure and Function	<b>3</b>
	<b>ANS230</b> Animal Production Systems II	<b>3</b>	<b>ANS207</b> Crop & Pasture Science	<b>3</b>
	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS208</b> Crop Protection & Plant Biosecurity	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
<b>Year 3</b>	<b>VET380</b> Veterinary Nutrition & Animal Toxicology	<b>3</b>	<b>ANS337</b> Animal Industry Experience	<b>3</b>
	<b>ANS333</b> Animal Production Systems III	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>

### Course Plan 3 – Semester 2 entry with CHE140 exemption

#### Major Prerequisites: Chemistry Background

The following course plan applies for students that are granted an exemption for CHE140.

Semester 1			Semester 2	
Year 1			<b>ANS101</b> Introduction to Livestock Science & Genetics	<b>3</b>
			<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
			<b>BSC100</b> Building Blocks for Science Students	<b>3</b>
			Career Learning Spine or General Elective	<b>3</b>
				<b>12</b>
Year 2	<b>ANS105</b> Agricultural Science & Food Production	<b>3</b>	<b>ANS221</b> Animal Structure and Function	<b>3</b>
	<b>MAS183</b> Statistical data analysis	<b>3</b>	<b>ANS207</b> Crop & Pasture Science	<b>3</b>
	<b>BIO152</b> Cell Biology	<b>3</b>	<b>ANS208</b> Crop Protection & Plant Biosecurity	<b>3</b>
	Career Learning Spine or General Elective	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 3	<b>VET272</b> Comparative Mammalian Biochemistry	<b>3</b>	<b>ANS337</b> Animal Industry Experience	<b>3</b>
	<b>ANS230</b> Animal Production Systems II	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	<b>ANS333</b> Animal Production Systems III	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<b>3</b>
	<b>ENV243</b> Water & Earth Science	<b>3</b>	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 4	<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>		
	<b>VET380</b> Veterinary Nutrition & Animal Toxicology	<b>3</b>		
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>		
	Career Learning Spine or General Elective	<b>3</b>		
		<b>12</b>		

### Course Plan 4 – Semester 2 entry (no CHE140 exemption)

Semester 1			Semester 2	
			<b>ANS101</b> Introduction to Livestock Science & Genetics	<b>3</b>
			<b>CHE140</b> Fundamentals of Chemistry	<b>3</b>
			<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
			<b>BSC100</b> Building Blocks for Science Students	<b>3</b>
				<b>12</b>
<b>ANS105</b> Agricultural Science & Food Production	<b>3</b>		<b>ANS221</b> Animal Structure and Function	<b>3</b>
<b>MAS183</b> Statistical data analysis	<b>3</b>		<b>ANS207</b> Crop & Pasture Science	<b>3</b>
<b>BIO152</b> Cell Biology	<b>3</b>		<b>ANS208</b> Crop Protection & Plant Biosecurity	<b>3</b>
Career Learning Spine or General Elective	<b>3</b>		CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
	<b>12</b>			<b>12</b>
<b>VET272</b> Comparative Mammalian Biochemistry	<b>3</b>		<b>ANS337</b> Animal Industry Experience	<b>3</b>
<b>ANS230</b> Animal Production Systems II	<b>3</b>		<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
<b>ANS333</b> Animal Production Systems III	<b>3</b>		<b>ANS312</b> Advanced Crop & Pasture Science	<b>3</b>
<b>ENV243</b> Water & Earth Science	<b>3</b>		CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>
	<b>12</b>			<b>12</b>
<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>			
<b>VET380</b> Veterinary Nutrition & Animal Toxicology	<b>3</b>			
CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>			
Career Learning Spine or General Elective	<b>3</b>			
	<b>12</b>			

## B1391 Course Plan Checklist

<b>B1391 Course Requirements</b>	
Units total <b>72 credit points</b>	
<b>Spine 1:</b> MSP100	
<b>Spine 2:</b> specified elective (MSP200 or MSP201 or ANS302 or ANS303)	
<b>Spine 3:</b> specified elective (MSP200 or MSP201 or ANS302 or ANS303)	
<b>Core:</b> BSC100	
<b>Core:</b> MAS183	
<b>Core:</b> CHE140	
<b>Core:</b> BIO152	
<b>At least 1 major:</b> animal science/animal health/crop and pasture science	

### Major: Animal Science MJ-ANS

BMS107	Vertebrate Form and Function	
ANS101	Intro to Livestock Science & Genetics	
VET272	Comparative Mammalian Biochemistry	
ANS230	Animal Production Systems II	
ANS221	Animal Structure and Function	
VET380	Veterinary Nutrition and Animal Toxicology	
ANS333	Animal Production Systems III	
ANS337	Advanced Animal Production	

### Major: Crop & Pasture Science MJ-CPS

ANS105	Ag Science and Food Protection	
ENV243	Water and Earth Science	
ANS207	Crop & Pasture Science	
ANS208	Crop Protection & Plant Biosecurity	
ANS309	Agricultural Markets, Economics & Policy	
ANS311	Agricultural & Environmental Technologies	
ANS312	Advanced Crop & Pasture Science	
	<b>One CPS major specified elective:</b> ENV303, BIO282, BIO257, MAS223, BIO246	

**Disclaimer:** This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online [Handbook](#).