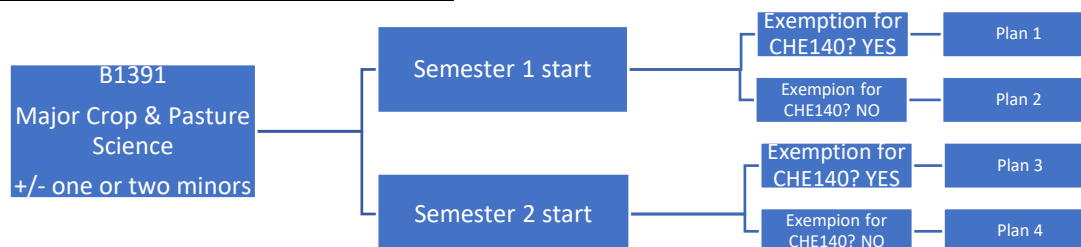


**Course Plans: 2022-2023**  
**B1391 Bachelor of Agricultural Science**  
**Major Crop & Pasture Science - 72 credit points**  
 Academic Chair Crop & Pasture Science: Professor Graham O'Hara [G.Ohara@murdoch.edu.au](mailto:G.Ohara@murdoch.edu.au)

**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: 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 4: 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*
- **MSP202** The Search for Everything: Data analytics – 3 pts (MURDOCH: S1-external, S1-internal, S2-external, S2-internal)
- **ANSxxx** Advanced Agricultural Skills (MURDOCH: S1-external, S2-external, SUM-external, W-external)
- **VLS302** Professional Placements in Veterinary and Life Science (MURDOCH: S1-external, S2-external, SUM-external) *Note – subject to availability*

**Step 5: General Electives added to bring total credit points to 72 points**

- Select general electives to bring total credit points to 72 points.
- The timing and type of unit is flexible with only restriction that no more than 30 credit points can come from Part 1 units.
- “Extra” career learning spine units can be counted as general electives.
- NOTE - elective slots can be used to complete one or two minors

Recommended general electives:

- **ANS102** Introduction to Animal Body – 3pts (MURDOCH: S1-internal)
- **VET101** Sustainable and Ethical Animal Management – 3pts (MURDOCH: S2-internal) - *highly recommended for students applying for transfer to veterinary science*
- **VET380** Veterinary Nutrition and Animal Toxicology – 3 pts (MURDOCH: S1-internal)
- **ANS363** Applied Animal Agriculture – 3 pts (MURDOCH: S1-internal)#
- **ANS364** Applied Animal Breeding – 3 pts (MURDOCH: S2-internal)#
- **ANS365** Equine Physiology and Behaviour – 3 pts (MURDOCH: S1-internal)\*
- **ANS366** Equine Nutrition and Health – 3pts (MURDOCH: S2-internal)\*

\*Completion of ANS365 and ANS366 = eligibility for Equine Science Minor (MN-EQUINE)

#Completion of ANS363 and ANS364 = eligibility for Applied Animal Production minor (MN-ANMP)

Other suggested minors: Molecular Biology (MN-MOLB), Wildlife Conservation (MN-WLC), Applied Statistics (MN-APST)

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

**Step 6: Confirm your course plan contains all required units using checklist (final page)**

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

Major Prerequisites: Chemistry Background				
<ul style="list-style-type: none"> <li>The following course plan applies for students that are <u>granted an exemption for CHE140</u>.</li> </ul>				
Semester 1			Semester 2	
Year 1	<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>	Career Learning Spine or General Elective	<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>
Year 2	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS207</b> Crop & Pasture Science	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<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>
	Career Learning Spine or General Elective	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 3	<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<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>
	Career Learning Spine or General Elective	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>

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

Semester 1			Semester 2	
Year 1	<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>	Career Learning Spine or General Elective	<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>
Year 2	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS207</b> Crop & Pasture Science	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<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>
	Career Learning Spine or General Elective	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 3	<b>ANS309</b> Agricultural Markets, Economics & Policy	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<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>
	Career Learning Spine or General Elective	<b>3</b>	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 <u>granted an exemption for CHE140</u> .				
Semester 1			Semester 2	
Year 1			<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
			<b>BSC100</b> Building Blocks for Science Students	<b>3</b>
			<b>BIO152</b> Cell Biology	<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>ANS207</b> Crop & Pasture Science	<b>3</b>
	<b>MAS183</b> Statistical data analysis	<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>
	Career Learning Spine or General Elective	<b>3</b>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 3	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<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>
	Career Learning Spine or General Elective	<b>3</b>	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>		
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>		
	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	
Year 1			<b>BMS107</b> Foundations of Vertebrate Form & Function	<b>3</b>
			<b>BSC100</b> Building Blocks for Science Students	<b>3</b>
			<b>CHE140</b> Fundamentals of Chemistry	<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>ANS207</b> Crop & Pasture Science	<b>3</b>
	<b>MAS183</b> Statistical data analysis	<b>3</b>	<b>ANS208</b> Crop Protection & Plant Biosecurity	<b>3</b>
	<b>BIO152</b> Cell Biology	<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>	Career Learning Spine or General Elective	<b>3</b>
		<b>12</b>		<b>12</b>
Year 3	<b>ENV243</b> Water & Earth Science	<b>3</b>	<b>ANS311</b> Agricultural & Environmental Technologies	<b>3</b>
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>	<b>ANS312</b> Advanced Crop & Pasture Science	<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>
	Career Learning Spine or General Elective	<b>3</b>	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>		
	CPS Major Specified Elective or Career Learning Spine or General Elective	<b>3</b>		
	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>Career Learning Spine 1:</b> MSP100	
<b>Career Learning Spine 2:</b> specified elective	
<b>Career Learning Spine 3:</b> specified elective	
<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/ <b>crop and pasture science</b>	

### 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 (<https://handbook.murdoch.edu.au/>). Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course*