

HARPER ADAMS UNIVERSITY

Programme Specification

1	Awarding Institution:	Harper Adams University
2	Teaching Institution:	Askham Bryan College
3	Course Accredited by:	Not Applicable
4	Final Award and Level:	BSc / BSc (Hons) (Level 6)
5	Interim Award(s) and Level(s):	Certificate of Higher Education Horticulture (Level 4) Diploma in Higher Education Horticulture (Level 5) BSc Horticulture with Landscape Garden Management (Level 6)
6	Award Title:	Horticulture with Landscape Garden Management
7	UCAS Code:	2257
8	JACS Code(s):	D417
9	QAA Benchmark Statement(s):	Agriculture, Horticulture, Forestry, Food and Consumer Sciences (2016) Biosciences (2014)
10	Language of Study:	English
11	Mode of Study:	Full-time Part-time
12	Date Approved or Revised:	Horticulture Validation Event – 12 th January 2017 (September 2017 – August 2023)

CONTEXT AND RATIONALE

The horticulture industry is estimated to be worth £1.2billion to the British economy and over €400 million in Ireland and it provides regular employment for over 37,000 people in the UK and 6,000 in Ireland, with many of these jobs in rural areas (Chartered Institute of Horticulture, 2014).

Today's horticultural businesses operate in a highly competitive and demanding global market environment. In addition, consumer demand in the UK is also changing with the drive for local food and organic production. Production, harvesting and storing of vegetables is highly mechanised and technologically advanced.

Horticulturists are employed not only in the more typical plant nurseries, greenhouse, public parks, and vegetable growers, but also in hospitals (horticultural therapy), and tourist attractions (managing environments for animals and visitors). The college has strong links with many employers and specialist staff come from vocational backgrounds within the industry.

Today's horticultural businesses operate in a highly competitive and demanding global market environment. Changing world population and climate will create further challenges for the industry, with 39% of growers already citing climate change as having impact on their growing habits (NFU, 2010). In addition, consumer demand in the UK is also changing with

the drive for local food and organic production. Production, harvesting and storing of vegetables is highly mechanised and technologically advanced.

In 2013 a report entitled 'Horticulture Matters' was presented to the government by leading horticultural organisations (Chartered Institute of Horticulture, Lantra, The Horticultural Trades Association, Landex, British Association of Landscape Industries, English Heritage, The Royal Botanic Gardens Kew, The Royal Horticultural Society). The group surveyed 200 horticultural businesses and found that: 72% struggled to fill vacancies with 10% taking over a year to fill and 19 % recruit overseas. 67% thought career entrants were inadequately prepared for work. (3% demanded government action).

Horticulturists are employed not only in the more typical plant nurseries, greenhouse, public parks, and vegetable growers, but also in hospitals (horticultural therapy), and tourist attractions (managing environments for animals and visitors).

Employment prospects are excellent with horticultural opportunities, either within the UK or worldwide. Many students have come to study on degree courses at the college after successful careers in other areas, keen to pursue their main interest. Past students have found careers within production horticulture, historic gardens, local authorities, botanic gardens, landscaping companies and nurseries. The college has strong links with many employers and specialist staff are from vocational backgrounds within the industry.

The BSc/BSc (Hons) programme aims to educate undergraduates to a level where they can take up supervisory and management positions equipped with a broad range of horticultural expertise to meet the needs of industry.

This BSc/BSc (Hons) programme In Horticulture with Landscape Garden Management offers an opportunity for students to embark on an exciting programme which will develop the skills and attributes graduates need for employment in the wider horticulture industries. Practical scientific skills are embedded throughout the programme along with wider themes such as sustainability, business, research and project management. The three year programme is designed to give students a broad foundation in horticultural science and plant knowledge which can be applied to the growing of both food and ornamental plants and also to landscape and garden management situations. There are specific modules to cover turf and tree management. As it is designed for those entering horticulture at a higher level the final year examines issues relating to sustainability, conservation and resource management.

GENERIC AIMS

All BSc/BSc (Hons) awards aim to provide the following:

1. To develop in each student subject knowledge and understanding appropriate to individual interests and developing vocational needs.
2. To develop each student's intellectual powers, their understanding and judgement, their ability to see relationships within what they have learned and to examine the field of study in a broader perspective.
3. To develop the personal effectiveness and employability of students, in particular their ability to learn, to communicate, to work with others and to solve problems.
4. To develop those skills of professional scholarship required for career management, lifelong learning and innovation.
5. To inculcate an awareness of the wider consequences of economic activity and a determination to minimise harmful effects on the environment and people.
6. To provide a lively, stimulating and challenging educational experience.

AWARD-SPECIFIC AIMS

The BSc/BSc (Hons) Horticulture with Landscape Garden Management award aims to provide the following:

- a) To develop and practise the academic and subject competences required to conduct research, analyse data and communicate results within a technical environment
- b) To develop awareness of the impacts of plants within the rural and wider economy, and be able to assess the impact of existing and new developments on the biological, social and economic environment
- c) To increase students' awareness of the range of enterprises and associated technologies which may contribute to sustainable, diverse, modern and acceptable land use in a UK and World context
- d) To develop in students the technical, financial and managerial skills necessary to support and promote adaptable and sustainable economic development in the rural economy within the UK and beyond
- e) To develop students' conceptual and practical understanding of the policy underpinning local, national and international implementation of plant health policies by a range of associated agencies and organisations

GENERIC OUTCOMES

On successful completion of BSc/BSc (Hons) awards, students will be able to:

- A. Demonstrate a detailed and specialised knowledge of a range of theories, ideas, terminology and contexts associated with the discipline, with a clear appreciation of the ways in which knowledge is developed and the provisional nature of knowledge.
- B. Select, devise and evaluate the use of appropriate strategies to solve complex, unpredictable, ambiguous and real-world problems.
- C. Analyse complex data using appropriately selected techniques; draw out robust findings in this process; and, thoroughly evaluate the effectiveness of the analytical strategy.
- D. Select and combine ideas and/or data to generate meaningful and convincing composite evidence or arguments with a clear purpose.
- E. Review complex and unpredictable information to address unpredictable, ambiguous or real-world problems, with a good awareness of the limitations of both the material under review and the analytical approach.
- F. Select, use and evaluate technologies to enable or enhance the performance of specific tasks, and appreciate the evolution of technology in their discipline.
- G. Work effectively with others, with minimal or no supervision, to achieve positive outcomes; demonstrate leadership and management capabilities within a team situation; and, critically assess their personal contribution to the team.
- H. Recognise, pursue, record and reflect on personal development to pursue personal career goals and appreciate the changing nature of the workplace and the need for personal resilience and lifelong learning.
- I. Communicate effectively and professionally for a range of different purposes and through different modes, with consideration of audience needs as well as other contextual factors such as commercial sensitivity, impact maximisation and accessibility requirements.
- J. Perform practical operations in complex, unpredictable, real-world situations that require the selection of combined or novel practical skills and critically review personal effectiveness in practical tasks with reference to relevant professional standards.
- K. Act independently and autonomously with minimum supervision in academic and practical tasks.
- L. Select and use research to inform the development of knowledge and understanding, and to inform decision-making.

- M. Evaluate the sustainability of practices, processes or developments, with attention to different stakeholder perspectives, unintended consequences, economic and social dimensions, or environmental considerations.
- N. Compare and contrast international examples or case studies that are associated with the discipline and work with an active awareness of global factors or trends that have an impact on specific areas of study.
- O. Locate a range of ethical issues associated with their own research or professional behaviours, and demonstrate personal responsibility for ethical choices, including adherence to professional codes in complex ethical dilemmas.
- P. Not applicable
- Q. Effectively plan and undertake research.

AWARD-SPECIFIC OUTCOMES

On successful completion of the BSc/BSc (Hons) Horticulture with Landscape Garden Management award, students will be able to:

- R Demonstrate a detailed understanding of scientific concepts, knowledge and practical techniques which are used within the horticulture and landscape industries.
- S Apply subject specific knowledge and understanding necessary for employment in all horticultural fields.
- T Identify, analyse and solve a range of problems relating to the management of horticultural and landscape facilities.
- U Evaluate the wider influences of horticultural and landscape facilities and resources, including their environmental and economic impact on the community and how people's perceptions and use of these facilities may be improved.

RELATIONSHIP WITH EXTERNAL REFERENCE POINT(S)

QAA Quality Code for Higher Education Section A: Setting and maintaining academic standards, 2014.

QAA Subject Benchmark Statement Agriculture, Horticulture, Forestry, Food and Consumer Sciences states (Jul 16):

Degree programmes in **horticulture** are designed to develop the knowledge and skills required to integrate the challenges of food security, sustainable production, preservation of biodiversity, climate change and human well-being. Graduates may go on to manage horticultural enterprises and related businesses, operate in international trade and production systems, manage amenity landscapes or be involved in closely related official or commercial research and advisory work. Graduates with horticulture degrees have a thorough understanding of plant manipulation and production methods and of the underpinning scientific, economic and business principles. They are able to identify technological and economic problems encountered in current production systems, evaluate new techniques and, where appropriate, apply them to commercial practice. Graduates appreciate the social, rural and urban landscape values associated with horticulture and the dilemmas facing their current and future management; appreciate the underpinning global nature of production and supply chains; and evaluate the wider consequences of horticultural activities including public concerns over sustainable land use and production practices.

PROFESSIONAL ACCREDITATION ARRANGEMENTS

None.

COURSE DURATION, PROGRESSION, MODULE COMPENSATION, TRANSFER, ADVANCED STANDING AND INTERIM AWARDS

Course Duration

The full-time programme will be completed in three years, with each academic year consisting of two semesters, each typically of 16 weeks duration, including directed study weeks and examination periods.

The part-time programme will be completed in five years and typically be no less than 50% of the standard module diet of the full-time version of the award.

The maximum duration of study for full-time and part-time students (including up to one year postponement of studies) will be four years and six years respectively.

Progression

Students progressing to the second and third years must have satisfied the requirements for progression in line with Harper Adams University academic regulations.

Module Compensation Exclusions

The following modules are not eligible for compensation within the BSc/BSc (Hons) Horticulture with Landscape Garden Management programme:

BSc (Hons)

Year 1 modules: Propagation and Practical Botany
Plant Identification and Taxonomy
Academic Skills

Year 2 modules: Academic Development
Pests and Diseases

Year 3 modules: Research Methods
Dissertation
Horticulture Science

BSc

Year 1 modules: Propagation and Practical Botany
Plant Identification and Taxonomy
Academic Skills

Year 2 modules: Academic Development
Pests and Diseases

Year 3 modules: Research Methods
Applied Sustainable Practices
Horticulture Science

Transfer

For transfer between courses, students may transfer all credits and marks from the cross-college core modules into the destination award. Only in the case of pre-requisites have not being met will students be required to study credit in addition to the normal study load during years two and three (Level 4 and Level 5).

Entry with Advanced Standing

Table 4.1 in **Section 4** of the *Academic Quality Assurance Manual* identifies the maximum credit that can normally be advanced for students wishing to enter with advanced standing from a Harper Adams' award, or an award from another institution. Harper Adams' awards which qualify for the maximum volume of advanced standing into this programme are listed as follows:

None

Interim awards which qualify for a lower level of advanced standing, including Harper Adams' awards, into this programme are listed below:

None

The course structure diagram(s) identify the specific study programme(s) for candidates entering with advanced standing. **Section 4.5.10** of the *Academic Quality Assurance Manual* specifies the arrangements for transfer and advanced entry and these will apply unless an alternative arrangement has been approved.

Entry with Accreditation of Prior Learning (APL)/ Accreditation of Prior Experiential Learning (APEL) will be accepted in accordance with the Askham Bryan College procedure and Harper Adams University academic regulations. No more than $\frac{2}{3}$ credit for the award may be derived from APL. Within this limit, no more than half of the total credit value of the award may be derived from APEL.

Holders of a matching HNC/FdSc may apply to be admitted to part two of this programme, subject to satisfaction of the admitting Course manager of their suitability for study on the programme. Students would normally have to achieve the minimum credit requirements for the award specified.

Interim Awards

The requirements for interim awards associated with final awards are as follows:

Certificate of Higher Education Horticulture

Students will have obtained a minimum of 120 credits, with a maximum of 15 credits at level 3, and have met generic outcomes A-O and award specific outcomes R-T as identified within the level 4 curriculum map of this programme specification.

Diploma of Higher Education Horticulture

Students will have obtained a minimum of 240 credits that can include credits at level 4, 5 and 6, but with a minimum of 105 credits at level 5, and have met generic outcomes A-O and award specific outcomes R-T as identified within the level 5 curriculum map of this programme specification.

BSc Horticulture with Landscape Garden Management

Students will have obtained a minimum of 300 credits, with a minimum of 60 at level 6, and have met generic outcomes A-O and award specific outcomes R-T as identified within the level 6 curriculum map of this programme specification. They will also have passed either 'Dissertation' or 'Applied Sustainable practice' and have obtained 30 P credits by successful completion of a 10 week period of work experience between years 2 and 3.

COURSE STRUCTURE, LEVELS AND CREDIT REQUIREMENTS FOR INTERIM AND FINAL AWARDS

Harper Adams' programmes are based on a credit-accumulation system where 1 credit represents 10 notional hours of student study time. Modules are normally 15 credits or multiples thereof. Modules are also at different levels from Levels 3 – 7, according to their intellectual challenge. Courses leading to specific awards include **core modules, optional modules** from which students must select choices up to the number of credits required, and, in some cases, **elective credit** whereby students may study any modules of their choice from within the Harper Adams portfolio, subject to timetabling and pre-requisite constraints, in place of optional modules, with the approval of their course manager.

The minimum credit requirements needed to progress to interim and final awards are listed in **Section 4.4.5** of the *Academic Quality Assurance Manual*. These are reflected in the corresponding course structure study programmes, which follow.

Course Structure – BSc / BSc (Hons) Horticulture with Landscape Garden Management

Part 1- Level 4		Part 2 - Level 5		Part 3 - Level 6	
Year 1		Year 2		Year 3	
Semester 1 Core	Semester 2 Core	Semester 1 Core	Semester 2 Core	Semester 1 Core	Semester 2 Core
Academic Skills (ABC4100) 15 credits	Plant Science (ABH4107) 15 credits	Plant Pests and Diseases (Module Code TBC) 15 credits	Tree and Woodland Management (Module Code TBC) 15 credits	Dissertation (Module Code TBC) 30 credits	
Propagation and Practical Botany (ABH4109) 15 credits	Introduction to Design and Landscape Construction (ABH4102) 15 credits	Academic Development (Module Code TBC) 15 credits	Business Enterprise (Module Code TBC) 15 credits		
Soil Science (ABH4110) 15 credits	Plant Identification and Taxonomy (ABH4106) 15 credits	Land and Environment Management (Module Code TBC) 15 credits	Project and Contract Management (Module Code TBC) 15 credits	Research Methods (Module Code TBC) 15 credits	Business Leadership and Management (Module Code TBC) 15 credits
Introduction to Business (ABC4102) 15 credits	Plant Establishment and Maintenance (ABH4105) 15 credits	Turf Grass Management (Module Code TBC) 15 credits	Landscape and Garden Design and Surveying (Module Code TBC) 15 credits	Applied Sustainable Practices (Module Code TBC) 15 credits	Social Land Use (Module Code TBC) 15 credits
				Horticultural Science and Technology (Module Code TBC) 15 credits	Conservation and Restoration (Module Code TBC) 15 credits

10 week Work Experience (30P credits) placement (or equivalent 300 hours) must be completed during the first two years of study. This can be completed during term time or study breaks, and will be recorded in a work log which is submitted at the end of each academic year.

Full-time students will normally study at least 120 credits (equivalent to 1200 study hours) per year from a combination of core (compulsory) modules.

Validation Date: 12th January 2017

Date of Approval following Response to Validation Report: July 2017

Period of Approval: September 2017 – August 2023

COURSE DESIGN, LEARNING, TEACHING AND ASSESSMENT METHODS

Assessment philosophy

Assessments will vary to reflect the academic, practical and professional skills development of students on the BSc/BSc (Hons) Horticulture with Landscape Garden Management programme.

Learning and teaching methods

Teaching and learning methods used to deliver this curriculum are designed to provide experience, and, through reflection upon it, develop concepts which can then be explored through testing and experimentation. Methods vary according to the nature of each module's subject matter but include a wide diversity from more formal lectures to student centred activities including assignments, seminars, field trips, guest lectures and case studies. Students will be supported with their study via the college's VLE, which will prepare them for the autonomy expected of HE students.

Transferable skills

The programme has been developed to enable students to plan and execute research and development work. It encourages independent learning, professional and personal development, and the ability to present skills, exams and behaviour appropriate to a management career. The programme includes activities to develop core skills of communication, numeracy, IT and personal development planning as well as modules designed to develop teamwork and independent learning, problem solving and research (Dissertation, Research Methods and Applied Sustainable Practices). Practical work experience during directed study time is also recommended so that students can apply information and skills to real life situations. This work experience will be gained through a 10 week placement between years 2 and 3 for which they will be awarded 30 notional P credits that will not contribute to award classification.

Typical assessment

Assessment is considered an important part of the learning process. Typically, modules are assessed by two pieces of assessment, although this may vary. The first will provide formative in-course feedback and the second provides a summative end-of module assessment; each contributing 50% to the weighted mean module work. The exact details are specified in each module descriptor. Unless otherwise specified in module descriptors the overall mark is derived from a weighted mean, with no threshold requirement in any assessment component. Formative assessment methods are diverse and include literature review-based essays, problem based assignments, oral presentations and business written reports, individual and team scenario exercises, experimental work and placement assignments. Time constrained assessment includes closed and open book assessment, with both seen and unseen questions and tasks set.

Group assessment includes group collection of both quantitative and qualitative data and information to facilitate decision-making. Practical assessment will include the design and set-up of laboratory or field experiments, with analysis and presentation of collected data. Further assessment is facilitated by case studies and links with industry, including product evaluation.

ENTRANCE REQUIREMENTS

Applicants will normally have 5 GCSE's or above including English, maths and science at Grade C or above. Achievements at level 2 in appropriate Functional Skills will also be considered as an alternative for English and maths and Merit grades or above in Science based modules at Level 3 can be used as an alternative to GCSE Science.

Applicants are expected to achieve a minimum of 84 UCAS points.

Applicants will normally have studied a two year level 3 programme at A Level, to include Biology, or a vocational Level 3 Diploma. Normally applicants will be expected to show achievements in science modules at Merit grade or above in vocational programmes. This reflects the science based nature of the programmes.

Applicants without appropriate achievements in Science may be asked to undertake an assessment of scientific knowledge.

Applications from those that have significant life or work experience after leaving compulsory education will normally have studied and achieved an Access to HE course or successfully completed a minimum of a one year level 3 courses and/or be able to demonstrate that they are working at an appropriate level in English, maths and science through an assessment process.

Curriculum Map for BSc/BSc (Hons) Horticulture with Landscape Garden Management

			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U		
Modules	LEVEL 4	Academic Skills	C					x			x		x	x											
		Plant Science	C	x			x		x						x		x						x		
		Soil Science	C	x					x						x		x						x	x	
		Propagation and Practical Botany	C			x		x				x	x									x			
		Plant Establishment and Maintenance	C				x	x					x			x		x				x			x
		Plant Identification and Taxonomy	C			x		x				x	x									x		x	
		Introduction to Design and Landscape Construction	C		x					x			x			x		x						x	x
		Introduction to Business	C		x					x				x		x									
	Work Placement										x														
	LEVEL 5	Academic Development	C			x			x			x	x												
		Business Enterprise	C							x		x			x		x								
		Tree and Woodland Management	C		x		x				X		X		X	X							X	X	
		Turfgrass Science Management	C	x			x	x				x				x									
		Landscape, Garden Design and Surveying	C		x		x		x				x			x								x	
		Project and Contract Management	C	x	x	x						x													
		Plant Pests and Diseases	C	x			x	x				x				x	x						x		x
		Land and Environment Management	C					X	X	X		X		X									X	X	
	Work Placement										x														
	LEVEL 6	Dissertation	C			x								x	x			x		x					
		Research Methods	C			x			x						x			x							
		Business Leadership and Management	C				x			x		x					x								
Applied Sustainable Practices		C				x	x			X			x		x							X			
Conservation and Restoration		C	x		x										x	x					x	x	x		
Social Land Use		C	x	x		x				x	x													x	
Horticultural Science and Technology (O)		O	x	x		x	x	x				x		x	x		x				x	x	x	x	
Urban Forestry and Tree-scape Management (O)		O	x	x		x	x	x				x									x	x		x	

Level 4

A	Knowledge	Identify and describe key theories, ideas and terminology associated with the discipline.
B	Problem Solve	Solve straightforward, routine or predictable problems using strategies that are specified.
C	Analysis	Analyse data or ideas using specified procedures to generate usable findings.
D	Synthesis	Categorise information and draw on multiple sources to fulfil a specified purpose.
E	Evaluation	Review information in a balanced manner, using specified methods to fulfil a given purpose.
F	Digital Competence	Use technologies to enable or enhance the performance of specific tasks and demonstrate a commitment to developing appropriate digital competencies.
G	Team Work	Work with others to meet specified objectives and fulfil personal goals.
H	Career Develop	Recognise how learning within their programme links to future careers and identify the knowledge, skills and attributes associated with different relevant professions.
I	Communications	Communicate clearly to convey an understandable message in relation to specific tasks and audiences.
J	Practical Comp	Perform practical operations in predictable, routine situations that require the application of specified procedures.
K	Autonomy	Take responsibility for studies and self-development with guidance and support. Use the resources available to help learning.
L	Research	Recognise that research can generate theory and ideas that are used in practice.
M	Sustain Practice	Recognise the meaning and importance of sustainable practice, and identify some of the ways that sustainable practice manifests.
N	Global	Identify a range of international examples or case studies that are associated with the discipline.
O	Ethics	Recognise some ethical challenges and appreciate the need or personal responsibility.
P	Placement	Not applicable.
Q	Honours	Not applicable
R		Demonstrate a detailed understanding of scientific concepts, knowledge and practical techniques which are used within the horticulture and landscape industries.
S		Apply subject specific knowledge and understanding necessary for employment in all horticultural fields.
T		Identify, analyse and solve a range of problems relating to the management of horticultural and landscape facilities.
U		Evaluate the wider influences of horticultural and landscape facilities and resources, including their environmental and economic impact on the community and how people's perceptions and use of these facilities may be improved

Level 5

A	Knowledge	Demonstrate a detailed knowledge of key theories, ideas and terminology associated with the discipline, with some appreciation of how knowledge is developed and used in practice.
B	Problem Solve	Select and use strategies to solve problems that are complex or unpredictable
C	Analysis	Analyse data using recognisable principles or approaches, and draw out specific findings from this process with some awareness of the limitations of the approach.
D	Synthesis	Compare and contrast ideas and/or data to strengthen evidence or arguments towards a specified purpose.
E	Evaluation	Review information using selected methods to address complex issues or problems, with an awareness of some of the limitations of the source material
F	Digital Competence	Select and use appropriate technologies to enable or enhance the performance of specific tasks, and appreciate the role information and communication technologies play in the discipline or relevant professions.
G	Team Work	Work productively with others on negotiated tasks and evaluate team performance with reference to some of the internal and external factors affecting success
H	Career Dev	Recognise, pursue and record personal development in a way that supports the needs of relevant professional employers.
I	Communications	Communicate effectively through different media and genre, for specialist and non-specialist audiences.
J	Practical Comp	Perform practical operations in more complex or unpredictable situations that require the selection and application of appropriate skills and review personal effectiveness in practical tasks.
K	Autonomy	Work independently and autonomously with only some supervision in academic and practical tasks; make decisions about when support is needed.
L	Research	Use research to inform the development of knowledge and understanding, and to inform decision-making.
M	Sustain Practice	Recognise the complexity of sustainable practice, and assess the sustainability of different practices, processes and/or developments.
N	Global	Compare and contrast international examples or case studies that are associated with the discipline and identify global factors or trends that have an impact on specific areas of study.
O	Ethics	Recognise some ethical challenges associated with research and within professional behaviour, and appreciate the role of personal responsibility and professional codes in complex ethical dilemmas
P	Placement	Not applicable.
R		Demonstrate a detailed understanding of scientific concepts, knowledge and practical techniques which are used within the horticulture and landscape industries.
S		Apply subject specific knowledge and understanding necessary for employment in all horticultural fields.
T		Identify, analyse and solve a range of problems relating to the management of horticultural and landscape facilities.
U		Evaluate the wider influences of horticultural and landscape facilities and resources, including their environmental and economic impact on the community and how people's perceptions and use of these facilities may be improved

Level 6

A	Knowledge	Demonstrate a detailed and specialised knowledge of a range of theories, ideas, terminology and contexts associated with the discipline, with a clear appreciation of the ways in which knowledge is developed and the provisional nature of knowledge.
B	Problem Solve	Select, devise and evaluate the use of appropriate strategies to solve complex, unpredictable, ambiguous and real-world problems.
C	Analysis	Analyse complex data using appropriately selected techniques; draw out robust findings in this process; and, thoroughly evaluate the effectiveness of the analytical strategy.
D	Synthesis	Select and combine ideas and/or data to generate meaningful and convincing composite evidence or arguments with a clear purpose.
E	Evaluation	Review complex and unpredictable information to address unpredictable, ambiguous or real-world problems, with a good awareness of the limitations of both the material under review and the analytical approach.
F	Digital Competence	Select, use and evaluate technologies to enable or enhance the performance of specific tasks, and appreciate the evolution of technology in their discipline.
G	Team Work	Work effectively with others, with minimal or no supervision, to achieve positive outcomes; demonstrate leadership and management capabilities within a team situation; and, critically assess their personal contribution to the team.
H	Career Dev	Recognise, pursue, record and reflect on personal development to pursue personal career goals and appreciate the changing nature of the workplace and the need for personal resilience and lifelong learning .
I	Communications	Communicate effectively and professionally for a range of different purposes and through different modes, with consideration of audience needs as well as other contextual factors such as commercial sensitivity, impact maximisation and accessibility requirements.
J	Practical Comp	Perform practical operations in complex, unpredictable, real-world situations that require the selection of combined or novel practical skills and critically review personal effectiveness in practical tasks with reference to relevant professional standards.
K	Autonomy	Act independently and autonomously with minimum supervision in academic and practical tasks.
L	Research	Select and use research to inform the development of knowledge and understanding, and to inform decision-making.
M	Sustain Practice	Evaluate the sustainability of practices, processes or developments, with attention to different stakeholder perspectives, unintended consequences, economic and social dimensions, or environmental considerations.
N	Global	Compare and contrast international examples or case studies that are associated with the discipline and work with an active awareness of global factors or trends that have an impact on specific areas of study.
O	Ethics	Locate a range of ethical issues associated with their own research or professional behaviours, and demonstrate personal responsibility for ethical choices, including adherence to professional codes in complex ethical dilemmas.
P	Placement	Not applicable
Q	Honours	Effectively plan and undertake research.
R		Demonstrate a detailed understanding of scientific concepts, knowledge and practical techniques which are used within the horticulture and landscape industries.
S		Apply subject specific knowledge and understanding necessary for employment in all horticultural fields.
T		Identify, analyse and solve a range of problems relating to the management of horticultural and landscape facilities.
U		Evaluate the wider influences of horticultural and landscape facilities and resources, including their environmental and economic impact on the community and how people's perceptions and use of these facilities may be improved