MC-URBHORT Master of Urban Horticulture

Year and Campus:	2016 - Burnley
CRICOS Code:	061121G
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	200 credit points taken over 24 months full time. This course is available as full or part time.
Coordinator:	Dr Nick Williams Email: nsw@unimelb.edu.au
Contact:	Currently enrolled students: # General information: **https://ask.unimelb.edu.au (https://ask.unimelb.edu.au)** # ***Contact Stop 1 (http://students.unimelb.edu.au/stop1)*** Future students: # Further information: **http://courses.science.unimelb.edu.au/study/degrees/master-of-urban-horticulture/overview (http://courses.science.unimelb.edu.au/study/degrees/master-of-urban-horticulture/overview)**
Course Overview:	The Master of Urban Horticulture (Coursework) was developed specifically for those seeking professional employment or developing research careers in urban horticulture and landscape management. There is a focus on the design, implementation and management of urban landscapes. Employment opportunities can be found in a variety of settings including arboricultural services and tree management, urban parks and public open space, revegetation and restoration, residential landscape design, landscape and asset management, landscape construction and services and in nursery and greenhouse management. Upon completion of the course students can progress to PhD studies at the University of Melbourne. Whilst it is beneficial for students to have some experience in the horticultural industry it is not essential to have previous employment to gain entry to the course. There are different pathways for students depending on the previous studies completed. The course has excellent linkages and contacts to the urban horticulture industry, adding to the currency and relevancy of the study experience, but also building employment opportunities for the future. The Master of Urban Horticulture is a graduate coursework program of 200 points completed over two years of full-time study or part-time equivalent. Offered primarily at the Burnley and Parkville campuses subjects are offered using semester long, intensive or online delivery modes to give students flexibility. Core studies are completed in the areas of plant production and establishment, horticultural science, urban soil and vegetation and landscape management as well as science and business tools subjects. Discipline electives include social and therapeutic horticulture, urban food production, garden design, urban tree management and green infrastructure subjects as well as a research project. Elective subjects to complement your degree are available from across the university. *Note: Graduates from relevant Honours programs or from the Graduate Diploma in Horticulture can apply for up to 100 points credit into the Masters program.*
Learning Outcomes:	*On completion of this course students should be able to:* # demonstrate skills and knowledge in the design, implementation and current management practices of urban landscapes. # interpret, critically analyse and evaluate data generated through research activities in order to effectively implement horticultural programs and operations # investigate and demonstrate innovative approaches to the contemporary, interdisciplinary management of urban landscapes and ecosystems by applying the principles and practices of biological, socio-cultural and environmental factors # evaluate urban vegetation, compare and explain green infrastructure systems and communicate the future effects of climate change and its relevance to the discipline of urban horticulture # develop an understanding of problem solving methodologies and demonstrate personal accountability by applying solutions to the diversity of challenges facing urban horticultural managers

	# effectively communicate, to a range of audiences, the social, the environmental and functional value of urban horticulture to develop creative and vibrant cities
Course Structure & Available Subjects:	The 200 point Master of Urban Horticulture program is normally completed over two years of full-time study but many students study part-time. However, there are different entry points available to students with a horticulture/plant science study background and those with no horticulture / plant science study experience. The 150 point Master of Urban Horticulture program is available to students who have completed an undergraduate degree in Plant Science or Horticulture. These students will be exempted from completing four of the core subjects within the 200 point program. The program comprises of: # 75 credit points of Core subjects (200 point program); **OR** # 25 credit points of Core subjects (150 point program); Plus # A minimum of 75 credit points of Discipline Elective subjects; # A minimum of 25 credit points of Science Toolbox and Business Tool/Scientific Communication subjects # A maximum of 25 credit points of General Elective subjects
Majors/Minors/ Specialisations	Master of Urban Horticulture
Subject Options:	**Core Subjects** **200 Point Program** Students must complete all of the following six subjects (75 points)

Subject	Study Period Commencement:	Credit Points:
HORT90033 Landscape Plants	Semester 1	12.50
HORT90004 ContemporaryPlantProduction&Establishmt	Semester 2	12.50
HORT90008 Horticultural Plant Science	Semester 1	12.5
ERTH90028 Urban Soils, Substrates and Water	Semester 2	12.5
ABPL90337 Managing Urban Landscapes	July	12.50
HORT90048 Urban Horticulture Issues & Perspectives	Not offered 2016	12.5

150 Point Program

Students must complete all of the following two subjects (25 points)

Subject	Study Period Commencement:	Credit Points:
ABPL90337 Managing Urban Landscapes	July	12.5
HORT90048 Urban Horticulture Issues & Perspectives	Not offered 2016	12.5

Discipline Electives

Students must complete at least six of the following subjects (75 points):

Subject	Study Period Commencement:	Credit Points:
AGRI90066 Soil Science and Management	Semester 1	12.50
HORT90040 Advanced Plant Breeding and Improvement	Semester 1	12.50

HORT90011 Therapeutic Landscapes	February	12.5
NRMT90002 Management of Plant and Animal Invasions	Semester 2	12.50
FRST90034 Ecological Restoration	September	12.50
ERTH90028 Urban Soils, Substrates and Water	Semester 2	12.5
ABPL90265 History of Landscape Architecture	Semester 2	12.50
FRST90033 Farm Trees & Agroforestry	October	12.50
HORT90046 Green Roofs and Walls	June	12.50
ENST90027 Public Values, Contested Landscapes	Not offered 2016	12.50
HORT90038 Food Production for Urban Landscapes	Semester 1	12.50
GEOG90022 International Internship in Environment	Summer Term, Semester 1, Semester 2	25
HORT90044 Urban Tree Health	November	12.5
HORT90042 Managing Urban Trees	July	12.5
HORT90043 Tree Identification and Selection	September	12.5
HORT90003 Plants and the Urban Environment	Semester 1	12.5
HORT50002 Managing Green Roofs and Walls	November	12.5
HORT90047 Short Research Project	Semester 1, Semester 2	25
FRST90077 Long Research Project B	Semester 1, Semester 2	25
EVSC90025 Water Sensitive Urban Design	February	12.5
HORT90039 Green Infrastructure for Liveable Cities	Not offered 2016	12.5

Science Toolbox

Students must complete at least one of the following subjects (12.5 points):

Subject	Study Period Commencement:	Credit Points:
MAST90008 Research Philosophies & Statistics	Semester 1	12.50
NRMT90003 Social Research Methods	Semester 1	12.50
AGRI90075 Research Methods For Life Sciences	Semester 1	12.50
HORT90034 Landscape Design	Semester 1	12.5
HORT90035 Landscape Construction and Graphics	Semester 2	12.5

Business Tool/Scientific Communication Electives

Students must complete at least one of the following subjects (12.5 points):

Subject	Study Period Commencement:	Credit Points:
AGRI90013 Financial Management for Agribusiness	Semester 1	12.50
AGRI90076 Industry Internship	Summer Term, Semester 1, Semester 2	12.50
ENST90023 Managing Innovation and Change	Semester 2	12.50

HORT90049 Horticulture Industry Internship	January, Semester 2	12.5
NRMT90017 Leadership	February	12.50
NRMT90018 Human Resource Management	Semester 1	12.50
NRMT90019 Business Strategy	February	12.50
NRMT90021 Project Management	Semester 2	12.50
SCIE90012 Science Communication	Not offered 2016	12.50

Students will select the remaining 25 points of their course from the Discipline Electives, Science Toolbox, Business Tool/Scientific Communication Electives or General Elective lists.

Example General Electives

Subject	Study Period Commencement:	Credit Points:
BOTA90005 Flora of Victoria	February	12.50
FRST90015 Forest Ecosystems	February	12.50
NRMT90014 Sustainable Landscapes	Semester 1	12.50
AGRI90057 Climate Change:Agric.Impacts&Adaptation	June, July	12.50
NRMT90007 Community Natural Resource Management	Semester 2	12.50
FOOD90026 The Politics of Food	Semester 1	12.50
FOOD90033 Sustainable Food: Policy and Practice	Not offered 2016	12.50
FOOD90034 Sustainable Food Production	Semester 2	12.5

Students who wish to take an elective subject not listed are advised to contact the subject coordinator for approval.

Entry Requirements:

1. In order to be considered for entry, applicants must have completed:

• an undergraduate degree or a graduate or postgraduate certificate any discipline with at least an H3 (65%) weighted average, or equivalent;

OR

• an honours degree, graduate diploma or postgraduate diploma in any discipline, or equivalent;

Meeting these requirements does not guarantee selection.

2. In ranking applications, the Selection Committee will consider:
• prior academic performance.

3. The Selection Committee may seek further information to clarify any aspect of an application in accordance with the Academic Board **rules (http://about.unimelb.edu.au/academicboard/resolutions)** on the use of selection instruments.

4. The minimum English language requirements for this course are Band 6.5.

Students who have completed an undergraduate degree in Plant Science or Horticulture will be eligible for entry into the 150 point program.

Core Participation Requirements:

The Faculty of Science welcomes applications from students with disabilities. It is University and Faculty policy to take reasonable steps to make reasonable adjustments so as to enable the student's participation in the Faculty's programs. The Faculty of Science contributes to the New Generation degrees and offers a broad range of programs across undergraduate and post-graduate levels many of which adopt a multi-disciplinary approach. Students of the Faculty's courses must possess intellectual, ethical, and emotional capabilities required to participate in the full curriculum and to achieve the levels of competence required by the Faculty. Candidates must have abilities and skills in observation; motor in relevant areas; communication; in conceptual, integrative, and quantitative dimensions; and in behavioural

	and social dimensions. Adjustments can be provided to minimise the impact of a disability, however students need to be able to participate in the program in an independent manner and with regard to their safety and the safety of others. I. Observation: In some contexts, the student must be able to observe demonstrations and experiments in the basic and applied sciences. More broadly, observation requires reading text, diagrams, maps, drawings and numerical data. The candidate should be able to observe details at a number of scales and record useful observations in discipline dependant contexts. II. Communication: A candidate should be able to communicate with fellow students, professional and academic staff, members of relevant professions and the public. A candidate must be able to communicate effectively and sensitively. Communication includes not only speech but also reading and writing. III. Motor: Candidates should have sufficient motor function necessary for participation in the inherent discipline-related activities. The practical work, design work, field work, diagnostic procedures, laboratory tests, require varying motor movement abilities. Off campus investigations may include visits to construction sites, urban, rural and/or remote environments. IV. Intellectual-Conceptual, Integrative and Quantitative Abilities: These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, the critical skill demanded of professionals in land and environment industries, requires all of these intellectual abilities. In addition, the candidate should be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. V. Behavioural and Social Attributes: A candidate must possess behavioural and social attributes that enable them to participate in a complex learning environment. Students are required to take responsibility for their own participation and learning. They also contribute to the learning of other students in collaborative learning environments, demonstrating interpersonal skills and an understanding of the needs of other students. Assessment may include the outcomes of tasks completed in collaboration with other students. Students who feel their disability will prevent them from meeting the above academic requirements are encouraged to contact the Disability Liaison Unit.
Further Study:	Upon completion of the course students may be able to apply to progress to PhD studies at the University of Melbourne. There are different pathways for students depending on the previous studies completed. The course has excellent linkages and contacts to the urban horticulture industry, adding to the currency and relevancy of the study experience, but also building employment opportunities for the future.
Graduate Attributes:	The Melbourne Experience enables our Graduates to become: Academically excellent Our Graduates will be expected to: have strong sense of intellectual integrity and the ethics of scholarship have in-depth knowledge of their specialist discipline(s) reach a high level of achievement in writing, generic research activities, problem-solving and communication be critical and creative thinkers, with an aptitude for continued self directed learning be adept at learning in a range of ways, including through information and communication technologies Knowledgeable across disciplines. Our graduates will be expected to: examine critically, synthesise and evaluate knowledge across a broad range of disciplines expand their analytical and cognitive skills through learning experiences in diverse subjects have the capacity to participate fully in collaborative learning and to confront unfamiliar problems have a a set of flexible and transferable skills for different types of employment. Leaders in communities Our graduates will be expected to: initiate and implement constructive change in their communities, including professions and workplaces have excellent interpersonal and decision-making skills, including an awareness of personal strengths and limitations mentor future generations of learners engage in meaningful public discourse, with a profound awareness of community needs Attuned to cultural diversity Our graduates will be expected to : Value different cultures be well-informed citizens able to contribute to their communities wherever they choose to live and work have an understanding of the social and cultural diversity in our community respect Indigenous knowledge, cultures and values Active global citizens Our graduates will be expected to: accept social and civic responsibilities be advocates for improving the sustainability of the environment have a broad global understanding, with a high regard for human rights, equality and ethics.
Generic Skills:	# A profound respect for truth, intellectual and professional integrity, and the ethics of scholarship # Capacity for independent critical thought, rational inquiry and self-directed learning and research # An ability to derive, interpret and analyse social, technical or economic information from primary and other sources # Awareness of and ability to utilise appropriate communication technology and methods for the storage, management and analysis of data # Capacity for creativity and innovation, through the application of skills and knowledge

	# Ability to integrate information across a relevant discipline to solve problems in applied situations # Highly developed computer - based skills to allow for effective on-line learning and communication. # Highly developed written communication skills to allow informed dialogue with individuals and groups from industry, government and the community # Highly developed oral communication skills to allow informed dialogue and liaisonwith individuals and groups from industry, government and the community. # Appreciation of social and cultural diversity from a regional to a global context # Ability to participate effectively as a member of a team # Ability to plan work, use time effectively and manage small projects
Links to further information:	http://graduate.science.unimelb.edu.au/master-of-urban-horticulture