

## MC-URBHORT Master of Urban Horticulture

<b>Year and Campus:</b>	2014 - Burnley
<b>CRICOS Code:</b>	061121G
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Level:</b>	Graduate/Postgraduate
<b>Duration &amp; Credit Points:</b>	200 credit points taken over 24 months full time. This course is available as full or part time.
<b>Coordinator:</b>	Dr Nick Williams
<b>Contact:</b>	<p><b>Melbourne School of Land &amp; Environment Student Centre</b> Ground Floor, Melbourne School of Land and Environment (building 142)</p> <p><i>Current Student Enquiries</i> Phone: 13 MELB (13 6352) Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> (<a href="mailto:13MELB@unimelb.edu.au">mailto:13MELB@unimelb.edu.au</a>)</p> <p><b>Future Student Enquiries</b> (<a href="https://nexus.unimelb.edu.au/NexusEnquiryForm.aspx?f=16755909770&amp;m=573578&amp;l=0&amp;programcode=K02&amp;sub=RE:%20RE:%20Urban%20Horticulture&amp;enquirytype=2">https://nexus.unimelb.edu.au/NexusEnquiryForm.aspx?f=16755909770&amp;m=573578&amp;l=0&amp;programcode=K02&amp;sub=RE:%20RE:%20Urban%20Horticulture&amp;enquirytype=2</a>)</p>
<b>Course Overview:</b>	<p>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.</p> <p>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 the course began in 2008. Some subjects may be offered online or using intensive, residential or mixed-mode delivery. Core studies are completed in the areas of plant production and establishment, horticultural science, urban flora, landscape management, a research project and either project management, social research or experimental design and statistics. Elective subjects include social and therapeutic horticulture, garden history and design, urban tree management, managing invasive species and many others across the university.</p> <p><i>Note: Students can elect to exit after the first year of full time study (100 points) with a Graduate Diploma in Urban Horticulture. Graduates from relevant Honours programs or from the Graduate Diploma in Horticulture can apply for up to 100 points credit into the Masters program.</i></p>
<b>Learning Outcomes:</b>	<p><i>On completion of this course students should be able to:</i></p> <ul style="list-style-type: none"> <li># demonstrate skills and knowledge in the design, implementation and current management practices of urban landscapes.</li> <li># interpret, critically analyse and evaluate data generated through research activities in order to effectively implement horticultural programs and operations</li> <li># 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</li> <li># 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</li> </ul>

	<p># develop an understanding of problem solving methodologies and demonstrate personal accountability by applying solutions to the diversity of challenges facing urban horticultural managers</p> <p># effectively communicate, to a range of audiences, the environmental and functional value of urban horticultural philosophy to the development of creative and vibrant cities</p>																																													
<b>Course Structure &amp; Available Subjects:</b>	<p>The 200 point Masters Course is normally completed over two years of full-time study but many students also study part-time. There are different course pathways available to students with a horticulture / plant science study background and those with no horticulture / plant science study experience .</p> <p>The program comprises 62.5 credit points of Core subjects, 25 credit points of Professional Toolbox subjects, a minimum of 25 credit points Research Project and a minimum of 25 credit points of discipline electives and the remaining credit points can be taken from general or discipline electives.</p>																																													
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<b>Subject Options:</b>	<p><b>Core Subjects</b></p> <p>Students must complete all of the following five subjects (62.5 points)</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>HORT90003 Plants and the Urban Environment</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>HORT90033 Landscape Plants</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>HORT90004 Contemporary Plant Production &amp; Establishment</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>HORT90008 Horticultural Plant Science</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ABPL90337 Managing Urban Landscapes</td> <td>July</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Professional Toolbox</b></p> <p>Students must complete two (25 points) Professional Toolbox subjects - one subject (12.5 points) from Science Tools and one subject (12.5 points) from Business Tools or Scientific Communication</p> <p><b>Science Tools</b></p> <p>Students must complete one of the following subjects (12.5 points):</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>HORT90045 Garden Design and Graphics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MAST90008 Research Philosophies &amp; Statistics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>NRMT90003 Social Research Methods</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>AGRI90075 Research Methods For Life Sciences</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Business Tools/Scientific Communication</b></p> <p>Students must complete at least one of the following subjects (12.5 points):</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>AGRI90076 Internship for Land and Environment</td> <td>Summer Term, Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>NRMT90017 Leadership</td> <td>February</td> <td>12.50</td> </tr> <tr> <td>NRMT90019 Business Strategy</td> <td>February</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	HORT90003 Plants and the Urban Environment	Semester 1	12.50	HORT90033 Landscape Plants	Semester 1	12.50	HORT90004 Contemporary Plant Production & Establishment	Semester 2	12.50	HORT90008 Horticultural Plant Science	Semester 2	12.50	ABPL90337 Managing Urban Landscapes	July	12.50	Subject	Study Period Commencement:	Credit Points:	HORT90045 Garden Design and Graphics	Semester 1	12.50	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	Subject	Study Period Commencement:	Credit Points:	AGRI90076 Internship for Land and Environment	Summer Term, Semester 1, Semester 2	12.50	NRMT90017 Leadership	February	12.50	NRMT90019 Business Strategy	February	12.50
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NRMT90018 Human Resource Management	April	12.50
NRMT90021 Project Management	June	12.50
AGRI90013 Financial Management for Agribusiness	September	12.50
ENST90023 Managing Innovation and Change	September	12.50
SCIE90012 Science Communication	Semester 2	12.50

### Research Project

Students must complete a minimum of (25 points) from the following subjects. (Please note that the Minor Research Project is a 25 point subject which is to be taken in either Semester 1 or Semester 2 – the Major Research Project is a continuing 25 point subject totals 50 points over two semesters.)

Subject	Study Period Commencement:	Credit Points:
AGRI90065 Major Research Project	Semester 1, Semester 2	25
AGRI90070 Minor Research Project	Semester 1, Semester 2	25

### Discipline Electives

Students must complete a minimum of two subjects (25 points) from the following:

Subject	Study Period Commencement:	Credit Points:
HORT90038 Buildings to Beans: Food in Cities	Not offered 2014	12.50
AGRI90066 Soil Science and Management	Semester 1	12.50
HORT90040 Advanced Plant Breeding and Improvement	Semester 1	12.50
HORT90007 Managing Trees in Urban Landscapes	June	12.50
HORT90011 Therapeutic Landscapes	February	12.50
NRMT90002 Management of Plant and Animal Invasions	Semester 2	12.50
EVSC90021 Public Values, Contested Landscapes	Not offered 2014	12.50
FRST90034 Ecological Restoration	September	12.50
ERTH90028 Urban Soils, Substrates and Water	Semester 2	12.50
ABPL90265 History of Landscape Architecture	Semester 2	12.50
HORT90039 Green Infrastructure for Liveable Cities	November	12.50
FRST90033 Farm Trees & Agroforestry	October	12.50
HORT90046 Green Roofs and Walls	June	12.50

### 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
MGMT90018 Psychology of HR Practice	Semester 1, Semester 2	12.50

	AGRI90057 Climate Change:Agric.Impacts&Adaptation	June, September	12.50
	AGRI90017 Operations and Decision-making	Not offered 2014	12.50
	NRMT90007 Community Natural Resource Management	Semester 2	12.50
	FOOD90026 The Politics of Food	Semester 1, Semester 2	12.50
<b>Entry Requirements:</b>	<p>1. The Selection Committee will evaluate the applicant's ability to successfully pursue the course using the following criteria:</p> <ul style="list-style-type: none"> <li># a three-year undergraduate degree with a grade average of 65% or greater; or</li> <li># an honours degree or equivalent qualification; or</li> <li># successful completion of a postgraduate diploma or a graduate diploma; or</li> <li># successful completion of a postgraduate certificate or graduate certificate with a grade average of 65% or greater, and</li> <li># a curriculum vitae or resume, and</li> <li># two academic referee reports, and</li> <li># a personal statement of up to 500 words.</li> </ul> <p>2. The Selection Committee may conduct interviews or may call for referee reports to elucidate any of the matters referred to above.</p>		
<b>Core Participation Requirements:</b>	<p>The Melbourne School of Land and Environment (MSLE) welcomes applications from students with disabilities. It is University and School policy to take reasonable steps to make reasonable adjustments so as to enable the student's participation in the School's programs. MSLE 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 School'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 School. 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.</p>		
<b>Further Study:</b>	<p>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</p>		

	industry, adding to the currency and relevancy of the study experience, but also building employment opportunities for the future.
<b>Graduate Attributes:</b>	<p>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 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.</p>
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># A profound respect for truth, intellectual and professional integrity, and the ethics of scholarship</li> <li># Capacity for independent critical thought, rational inquiry and self-directed learning and research</li> <li># An ability to derive, interpret and analyse social, technical or economic information from primary and other sources</li> <li># Awareness of and ability to utilise appropriate communication technology and methods for the storage, management and analysis of data</li> <li># Capacity for creativity and innovation, through the application of skills and knowledge</li> <li># Ability to integrate information across a relevant discipline to solve problems in applied situations</li> <li># Highly developed computer - based skills to allow for effective on-line learning and communication.</li> <li># Highly developed written communication skills to allow informed dialogue with individuals and groups from industry, government and the community</li> <li># Highly developed oral communication skills to allow informed dialogue and liaison with individuals and groups from industry, government and the community.</li> <li># Appreciation of social and cultural diversity from a regional to a global context</li> <li># Ability to participate effectively as a member of a team</li> <li># Ability to plan work, use time effectively and manage small projects</li> </ul>
<b>Links to further information:</b>	<a href="http://www.land-environment.unimelb.edu.au/urbanhorticulture/">http://www.land-environment.unimelb.edu.au/urbanhorticulture/</a>