

## HORT90003 Plants and the Urban Environment

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| <b>Credit Points:</b>                    | 12.5   |
| <b>Level:</b>                            | 9 (Graduate/Postgraduate)  |
| <b>Dates &amp; Locations:</b>            | 2015, Burnley<br>This subject commences in the following study period/s:<br>Semester 1, Burnley - Taught on campus.  |
| <b>Time Commitment:</b>                  | Contact Hours: 48 hours comprising lectures, practical classes and field trips<br>Total Time Commitment: 120 hours   |
| <b>Prerequisites:</b>                    | None   |
| <b>Corequisites:</b>                     | None   |
| <b>Recommended Background Knowledge:</b> | None   |
| <b>Non Allowed Subjects:</b>             | None   |
| <b>Core Participation Requirements:</b>  | It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. This course requires all students to enrol in subjects where they must actively and safely contribute to field excursions and laboratory activities. Students who feel their disability will impact on meeting this requirement are encouraged to discuss this matter with the Subject Coordinator and Disability Liaison <a href="http://services.unimelb.edu.au/disability/">http://services.unimelb.edu.au/disability/</a> .<br>Email: <a href="mailto:disability-liaison@unimelb.edu.au">disability-liaison@unimelb.edu.au</a> |
| <b>Coordinator:</b>                      | Assoc Prof Nicholas Williams   |
| <b>Contact:</b>                          | <b>Graduate School of Science</b><br><i>Enquiries</i><br>Phone: 13 MELB (13 6352)<br>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> )<br>Subject Coordinator: <a href="mailto:nsw@unimelb.edu.au">nsw@unimelb.edu.au</a> ( <a href="mailto:nsw@unimelb.edu.au">mailto:nsw@unimelb.edu.au</a> )  |
| <b>Subject Overview:</b>                 | This subject explores the relationship between the urban environment and the plants that grow in urban landscapes. It examines how urbanisation alters the physical and climatic environment of cities and the influence of these changes on urban vegetation and the ecosystem services they provide. Topics include: the origin, ecology and characteristics of remnant, spontaneous and designed vegetation in cities, the effects of urbanisation on climate, air, water and soils, the response of plants and animals to these changes, and the use of plants in living roofs and walls and water-sensitive urban design.   |
| <b>Learning Outcomes:</b>                | Students will be able to critically evaluate urban vegetation and understand why different urban plant communities grow where they do, the characteristics of species that comprise them, the ecological processes maintaining or threatening their persistence and the ecosystem services they provide.   |
| <b>Assessment:</b>                       | A 120 minute final examination (50%:end of semester), an individual report equivalent to 2000 words (20%:due during semester) and a group assignment of 3000 words (30%: due end of semester).   |
| <b>Prescribed Texts:</b>                 | A reading pack will be prepared for use in the subject.  |
| <b>Breadth Options:</b>                  | This subject is not available as a breadth subject.  |
| <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>  |

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| <b>Generic Skills:</b>                             | At the conclusion of the subject students should be able to demonstrate their understanding of the urban environment, its effect on plant performance and how vegetation can be used to ameliorate some of the effects of urbanisation. |
| <b>Related Course(s):</b>                          | Graduate Diploma in Urban Horticulture<br>Master of Urban Horticulture  |
| <b>Related Majors/Minors/<br/>Specialisations:</b> | Environmental Science<br>Environmental Science<br>Sustainable Cities, Sustainable Regions<br>Sustainable Cities, Sustainable Regions<br>Tailored Specialisation<br>Tailored Specialisation  |