

## 207-204 Engineering and Irrigation

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Twelve hours lectures, 12 hours laboratory exercises and field trips, 12 hours tutorials and seminars Total Time Commitment: Not available
<b>Prerequisites:</b>	207-110 The Horticultural Environment
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.&lt;/p&gt;         &lt;p&gt;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. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p>
<b>Coordinator:</b>	Mr Ken James
<b>Subject Overview:</b>	<p>Upon completion of this subject, students should be able to:</p> <ul style="list-style-type: none"> <li># demonstrate an understanding of the use of machinery in the management of horticultural resources;</li> <li># demonstrate an understanding of site surveying and levelling techniques; and</li> <li># identify and discuss the different types of irrigation systems used in horticulture, their operating principles and the evaluation of the performance of irrigation systems.</li> </ul> <p>Topics include:</p> <ul style="list-style-type: none"> <li># types of machinery and principles of operation of machinery used in the management of horticultural resources including parklands, sports turf, nurseries and urban landscapes;</li> <li># selection and evaluation of horticultural equipment including tractors, sprayers, earthwork equipment and maintenance machinery, power unit performance, occupational health and safety;</li> <li># site surveying for horticultural applications including plane surveying, levelling, field work, drawing of plans and levels for irrigation, landscape and drainage works;</li> <li># types of irrigation systems used in horticulture, irrigation components and equipment - characteristics and performance of pressurised irrigation systems, hydraulic performance, selection of appropriate irrigation techniques and methods to evaluate the performance of irrigation systems;</li> <li># management of irrigation systems to match plant and crop and site needs; and</li> <li># control and automation of irrigation technology.</li> </ul>

<b>Assessment:</b>	One 2000-word assignment (20%), two written 2-hour examinations (40% each).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	Information Not Available
<b>Breadth Options:</b>	<p>This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available.</p> <p>2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.</p>
<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>Generic Skills:</b>	Information Not Available
<b>Related Course(s):</b>	<p>Bachelor of Horticulture</p> <p>Bachelor of Horticulture</p>