

## 433-332 Operating Systems

<b>Credit Points:</b>	12.50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Twenty-four hours of lectures and approximately 11 hours of tutorials Total Time Commitment: Not available
<b>Prerequisites:</b>	433-252 Software Engineering Principles and Tools, 433-253 Algorithms and Data Structures and 433-254 Software Design.
<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>	Dr Zoltan Somogyi
<b>Subject Overview:</b>	Topics covered include operating system structure: interrupts, system calls; memory management: paging, segmentation; concurrent processes: mutual exclusion, synchronisation, deadlocks, scheduling; input/output, DMA; file systems, security; and introduction to distributed systems.
<b>Objectives:</b>	On completion of this subject students will understand the function of operating system components and their interactions; to be able to exploit operating system facilities to improve the functionality and efficiency of programs; and to be able to evaluate the suitability of a given operating system for a given task.
<b>Assessment:</b>	Project work during semester, expected to take about 36 hours (30%); and a 3-hour end-of-semester written examination (70%). To pass the subject, students must obtain at least 50% overall, 15/30 in project work, and 35/70 in the written examination.
<b>Prescribed Texts:</b>	None
<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>
<b>Generic Skills:</b>	On completion of this subject students should have an: <ul style="list-style-type: none"> <li># ability to apply knowledge of basic science and engineering fundamentals;</li> <li># ability to communicate effectively, not only with engineers but also with the community at large;</li> <li># in-depth technical competence in at least one engineering discipline;</li> <li># ability to undertake problem identification, formulation and solution; and</li> </ul>

	# ability to utilise a systems approach to design and operational performance.
<b>Notes:</b>	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
<b>Related Course(s):</b>	Bachelor of Engineering (Computer Engineering) Bachelor of Engineering (Computer) and Bachelor of Arts Bachelor of Engineering (Computer) and Bachelor of Commerce Bachelor of Engineering (Computer) and Bachelor of Laws Bachelor of Engineering (Electrical Engineering) Bachelor of Engineering (EngineeringManagement) Computer Bachelor of Engineering (Mechatronics) and Bachelor of Computer Science Bachelor of Engineering (Software Engineering)
<b>Related Majors/Minors/ Specialisations:</b>	Computer Science Computer Science Major