## 436-461 Advanced Mechanics of Solids

Credit Points:	12.50
Level:	4 (Undergraduate)
Dates & Locations:	This subject is not offered in 2009.
Time Commitment:	Contact Hours: Thirty-six hours of lectures and 12 hours of tutorials, assignments and /or laboratories Total Time Commitment: Not available
Prerequisites:	436-431 Mechanics 4 or equivalent
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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.
Subject Overview:	Students completing this subject should have a deeper understanding of the finite element method and develop advanced analysis skills in the other topics selected. The content of the subject will comprise a selection from the finite element method and its application to practical problems in stress analysis; bending and buckling of plates and shells, anisotropic elasticity and its application to composite materials; viscoelasticity and engineering plasticity.
Objectives:	-
Assessment:	One 3-hour examination at the end of semester (80%), 2 assignments not exceeding 2000 words each excluding computations, diagrams, tables and computer output due half and three-quarters of the way through the semester (20%).
Prescribed Texts:	None
Recommended Texts:	Information Not Available
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Information Not Available
Notes:	This subject may NOT be offered every year. Not available in 2009. Please refer to the Department of Mechanical Engineering.
Related Course(s):	Bachelor of Engineering (Mechatronics) and Bachelor of Computer Science