ABPL20044 Waste Systems and Housing Construction

Credit Points:	25
Level:	2 (Undergraduate)
Dates & Locations:	This subject is not offered in 2012. This subject is run intensively and classes are held at both the Parkville and Creswick campuses in January and February. A quota applies to this subject and students will need to apply via the Student Centre. For details please see: http://www.abp.unimelb.edu.au/current-students/msd-graduates/quota.html
Time Commitment:	Contact Hours: 120 hours Total Time Commitment: Not available
Prerequisites:	**Subject** / **Study Period Commencement:** / **Credit Points:** ENVS10004 Designing Environments / Semester 1, Semester 2 / 12.50
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry.The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Contact:	Environments and Design Student Centre Ground Floor, Baldwin Spencer (building 113) Enquiries Phone: 13 MELB (13 6352) Website: **http://www.msd.unimelb.edu.au (http://www.msd.unimelb.edu.au/)**
Subject Overview:	This subject addresses two key areas of concern to the world today - the need for new affordable housing and the need to dispose of the waste generated by today's consumer culture. Students will be required to design shelters or building elements from refuse. The subject will allow students to imagine how to built syatems might mimic natural systems where the concept of waste does not even exist. The subject will use an interdiscplinary approach, where student teams from the disciplines of architecture, landscape architecture, construction, engineering and planning will work collaboratively.
Objectives:	1 Research, analyse and map waste systems related to the housing sector. 2 Design and construct a prototype structure using waste materials. 3 Document the design, prototyping and construction processes. 4 Reflect on how team processes can enhance construction innovation.
Assessment:	2500 word group research project consisting of a waste mapping research and analysis exercise (10% group and 10% individual assessment) due at the end of week 1. Project to the equivalent of 5000 words - as part of a team, design and construct a prototype structure using waste materials (50%; 20% of which will be based on peer review assessment) due at the end of week 3. A 2000 word team journal which documents the prototyping process (20%) due at the end of week 4. 1000 word individual reflection (10%) due at the end of week 4
Prescribed Texts:	William McDonough & Michael Braungart, Cradle to Cradle, Remaking the Way We Make Things, North Point Press, 2002. Design Like You Give a Damn, Edited by Architecture for Humanity, Metropolis Books, 2006. Ed van Hinte, Cesare Peeren, Jan Jongert, Superuse:

	Constructing New Architecture by Shortcutting Material Flows, Rotterdam: 101 Publishers, 2007.
Recommended Texts:	Bernard Rudofsky, *Architecture without Architects: A short introduction to non-pedigreed architecture*, University of New Mexico Press, 1987. Martin Pawley, *Garbage Housing*, Architectural Press, 1975. Bill Steen, Athene Steen, Eiko Kim Gibbs, *Built By Hand: Vernacular buildings around the world*, Gibbs Smith, 2003.
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:	1 Creative response to complex problems that require solutions based on prototypes. 2 Appropriate use of systems and innovation terminology. 3 The ability to link together processes of design and construction. 4 The ability to reflect on and work in teams. 5 To gain a materials-based perspective in relation to the act of design.
Notes:	It is envisaged that the students will be required to work in teams over an intensive period at the Creswick campus engaging with the materials directly: to learning by doing – building basic shelters from the waste products donated by large organisations (cardboard, plastic, rubber….) # Students undertaking this subject will be required to regularly post their design work onto the subject's LMS based Wiki. This is in order to engage in feedback with their peers. # The subject involves extensive manual work: Both model making, drawing and full scale building on-site, in the elements and on uneven ground.