

UWA Plus Micro-credentials
Critical Information Summary

Title and brief description	<p>URBDM502 Sustainability and Cities – Core Topics</p> <p>Recently the world's urban population reached 50 per cent of the world's total, and by 2050 this will likely increase to two thirds. While cities are hubs of innovation and culture, they also use over two-thirds of global energy and produce around 70% carbon emissions, as well as other forms of air pollution. Cities also use vast quantities of fresh water and materials which in turn creates solid, liquid wastes, airborne pollution, affecting human health and destroying natural systems. This module (the second in a series of three) seeks to convey an advanced level of understanding of the core topics in the sustainable development challenges facing cities, in particular: urban ecology, energy, water scarcity and resource depletion, and prepare students to apply theories and tools to manage these topics in urban development.</p>
Teaching staff	Adjunct Professor Bill Grace
Certified learning	<p>(1) demonstrate a critical awareness of the challenges of growth in a world constrained by biodiversity loss;</p> <p>(2) demonstrate an advanced appreciation of cities as the engine of the energy transition;</p> <p>(3) demonstrate an advanced appreciation of cities water cycle; and</p> <p>(4) demonstrate an advanced appreciation of the impacts of materials and waste.</p>
How learner participated	Online only
Effort required (indicative)	50 hours
Main assessment task	Application of a skill to a complex problem
Supervision and identity verification	Unsupervised, no identity verification
Indicative equivalent level	Masters
Quality assurance	UWA
Successful learner earns PD Points for conversion to:	
<ul style="list-style-type: none"> Admission to an award course 	No

- Credit towards an award course Yes
Stackable with additional micro-credentials for advanced standing in a postgraduate course (6 PD Points required)
 - If yes, how much credit? Credit is less than one unit
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