

## Module specification

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*Refer to guidance notes for completion of each section of the specification.*

Module Code	ARA711
Module Title	Construction for Garden Design
Level	7
Credit value	20
Faculty	FACE
HECoS Code	100590
Cost Code	GAAA

## Programmes in which module to be offered

Programme title	Is the module core or option for this programme
MA Garden Design	Core

## Pre-requisites

N/A

## Breakdown of module hours

Learning and teaching hours	30 hrs
Placement tutor support	20 hrs
Supervised learning e.g. practical classes, workshops	50 hrs
Project supervision (level 6 projects and dissertation modules only)	40 hrs
<b>Total active learning and teaching hours</b>	<b>140 hrs</b>
Placement / work based learning	40 hrs
Guided independent study	20 hrs
<b>Module duration (total hours)</b>	<b>200 hrs</b>

<b>For office use only</b>	
Initial approval date	03/09/2019
With effect from date	03/09/2019
Date and details of revision	05/07/2024 – updated module breakdown hours and derogations.



<b>For office use only</b>	
Version number	3

## Module aims

This module develops an advanced understanding of hard materials and the application of this information to the detailed development of garden design solutions. It will enable students to produce effective and accurate working detail drawings in support of and appropriate to their creative design concepts. To accompany the development, students will gain comprehensive knowledge in research and the source materials to progress detailed design solutions and written specifications. Students will analyse complex issues to practically and creatively facilitate the synergy between theory and practice by resolving these issues without the loss of design integrity.

## Module Learning Outcomes - at the end of this module, students will be able to:

1	Produce detailed working drawings in support of their design schemes, enabling them to communicate effectively with landscape contractors and to quantify their work for costing purposes
2	Research and prepare sample written specifications in support of their design work
3	Identify and critically analyse a variety of hard landscape materials and understand their uses, technical properties and applications through appropriate research
4	Resolve junctions, changes of level and other technical matters affecting their design work whilst still maintaining the basic design integrity and reflect upon successful combinations of hard materials for both functional and decorative applications

## Assessment

### Indicative Assessment Tasks:

The coursework will require the student to present diagrams and drawings to the professional level expected, best practice, to inform a contractor of works. The diagrams are required to communicate and address the constituent elements of the designs, growing in complexity as design projects demand, and the materials utilised to appropriately inform the communication of the design. The drawn work must be augmented by evidence of reference material demonstrating the material qualities of substances used in the design and influential third party designs or technical specification as appropriate.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1, 2, 3, 4	Coursework	100



## **Derogations**

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Full time Masters programmes shall be completed normally in no more than 18 months by taking 3 trimesters (Part 1 trimester 1: September to January; trimester 2: February to June, then Part 2 trimester 3 September to January). A student who fails to complete the programme at the first attempt shall be required to complete all requirements within the normal registration period, that is, 24 months'.

## **Learning and Teaching Strategies**

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Lectures provide the information and context for the student to explore and apply their understanding of construction theory. Studio teaching sessions provide a basis for such application and tutors aim to customise this extended teaching around the students own creative ideas. This introduces depth into the study and an individually creative dimension that provides students with a one to one experience of design detail. Formal dissemination of information through lecture leads to the drawing board work and is reinforced by research into existing details and examples of hard landscape construction. Students are encouraged to photograph and measure existing examples before researching the techniques of construction used. They are required to develop detailed design solutions for discussion in tutorials and critiques, a synthesis of research, teaching and design analysis resulting in the refinement and resolution of successful design proposals. Selection of materials is part of the design process and students are encouraged to identify new materials source suppliers and keep abreast of developments within the industry. Much of the preparation for hard landscape design is therefore based on independent study and research, which the student brings to the studio or tutorial for ratification and dissemination. Specialist areas of hard landscape design are introduced as the module progresses, enabling students to increase and diversify their pool of knowledge. The ability to convey and communicate their own detailed design thinking to a range of specialist and non-specialists, including clients, project managers, contractors and specialist suppliers is developed both graphically and in terms of acquired knowledge. The intensity and directed nature of this area of study produces a high standard of understanding and awareness coupled with efficient communication skills.

## **Indicative Syllabus Outline**

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Initial key lectures deliver information on materials and encourage the student to consider the context in which designers have employed them.

Research and the application of the research findings are actively encouraged with students conducting their own investigations, through site and supplier visits.

Detailed lectures facilitate the development of a problem-solving approach in each student.

A source book journal is expected to be kept evidencing their research and acquired learning.

Major design projects include the exploration of construction technique, technical requirements and the use of functionally appropriate materials and fixings. Connection of theory and concept to practical realisation.



## Indicative Bibliography:

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Please note the essential reads and other indicative reading are subject to annual review and update. Please *ensure correct referencing format is being followed as per University referencing guide*.

### Essential Reads

Carpenter, Jot D. (ed.). (1976). The Handbook of Landscape Architectural Construction. American Society of Landscape Architects Foundation. McLean, Virginia.

Dreiseitl, Herbert, and Dieter Grau, Karl Ludwig. (2002). Waterscapes: Planning, Building, and Designing with Water. Birkhauser, Basel.

Ellison, D. C., W. C. Huntington, and R. E. Mickadeit. (1997). Building Construction: Materials and Types of Construction. 6 th Edn. New York: John Wiley & Sons, NY.

Thompson, George, and Frederick Steiner (eds.).(1996). Ecological Design and Planning. John Wiley & Sons, New York.

U.S. Environmental Protection Agency. (2003). Constructed Wetlands for Wastewater Treatment and Wildlife Habitat: 17 case studies (SuDoc EP 1.2:W 53/7). Washington DC: US EPA.

Underground Space Center, Minnesota Energy Agency. (1979). Earth Sheltered Housing Design: Guidelines, Examples, and References. Van Nostrand Reinhold, New York.

Van der Ryn, Sim and Cohen, Stuart. (2000). Ecological Design. Washington DC: Island Press.

Wolverton, B.C. 1999. Eco-Friendly Houseplants: 50 Indoor Plants that Purify the Air. Penguin, New York, Weidenfeld & Nicolson Illustrated, London.

Wakita, O. A. and R. M Linde. (1977). The Professional Practice of Architectural Detailing. John Wiley & Sons, New York.

Walker, Theodore D. (1978). Site Design and Construction Detailing. PDA Publishers, Mesa, Arizona. Wolverton, B.C., and John D.

Wolverton. (2001). Growing Clean Water: Nature's Solution to Water.

### Other indicative reading

Blake, J., (1999) Introduction to Landscape Design and Construction. Gower Publishing Ltd London.

Entwistle, J. (2012) Detail in Contemporary Lighting Design. Laurence King, London

Holden, R. (2011) Construction for Landscape Architecture (Portfolio Skills). Laurence King, London.

McLeod, V. (2012) Detail in Contemporary Landscape Architecture. Laurence King, London.

Phillips, D. (2012) Detail in Contemporary Concrete Architecture. Laurence King Publishing.



Sauter, D. (2010) Landscape Construction. 3 rd Edn. Delmar Cengage Learning.

McLeod, V. (2011) Detail in Contemporary Glass Architecture. Laurence King, London.

McLeod, V. (2012) Detail in Contemporary Residential Architecture. Laurence King, London.

McLeod, V. (2010) Detail in Contemporary Timber Architecture. Laurence King, London.

Zimmerman, A. (2011) Constructing Landscape [SC]: Materials, Techniques, Structural Components. 2 nd Edn. Birkhauser, Basel.

