

Environmental Sustainability (Design and Construction)

PgCert/PgDip/MSc

COURSE FACTS

School	Birmingham School of the Built Environment
Application	For details on how to make an application visit www.bcu.ac.uk/student-info/how-to-apply
Location	City Centre Campus, Millennium Point
Duration	Full-time: 12 months, part-time: 24 months



KEY FACTS

- Our Environmental Sustainability courses offer a multi-disciplinary and multi-cultural experience, allowing you the flexibility to tailor your degree to meet your own particular interests in sustainable design, construction, strategy and management.
- The Design and Construction pathway is an ideal course for graduates and professionals looking to become tomorrow's leaders in the field of sustainable construction.
- You will learn core design, management and decision-making skills, underpinned by an understanding of science and technology, together with the tools needed to develop and design green building solutions.

WHY CHOOSE US?

- The course provides a genuine multi-disciplinary learning environment by taking an interactive, student-centred, problem-based approach to learning. Student-led workshops are backed up by tutorial support, with aspiring environmentalists working closely with built environment students studying MSc Construction Project Management or MSc Building Information Modelling and Management.
- We have an established reputation in teaching quality and nationally/internationally recognised research groups in areas of urban regeneration and conservation; the rural-urban fringe; zero carbon architecture; technological change; environmental governance; and green fuels.
- The course reflects real-life working scenarios and addresses a broad range of issues from around the world. We place a strong emphasis on essential skills such as problem solving and learning to communicate design solutions to professionals from other backgrounds, non-specialists and the general public.

COURSE OVERVIEW

This is the course for people wishing to develop their skills and knowledge to become the world's sustainable construction specialists of tomorrow.

The course is designed to encourage and foster the skills needed for inter-disciplinary working amongst graduates and professionals from a variety of backgrounds employed within the environmental sector. It offers students the opportunity to gain a broad understanding of sustainability whilst allowing for a degree of specialism within the context of design and construction.

This pathway explores some of the ways in which the ideas of sustainable construction can be implemented. You will be encouraged to undertake a number of design projects resulting in a portfolio of ideas which can be applied to real working scenarios.

TERM 1			
Dynamic Natural Environments	Society, Economics and Environment	Green Design	Digital Design Management
TERM 2			
Sustainable Futures	Energy Trends and Technologies	Sustainable Design Practice	Innovation in Construction
TERM 3			
Master's Research Project			

COURSE STRUCTURE

The course shares a number of modules with the MSc Environmental Sustainability (Strategy and Management) pathway. Regardless of which pathway you choose, you will study Dynamic Natural Environments; Society, Economics and Environment; Green Design; Sustainable Futures; and Energy Trends and Technologies.

In addition, the Design and Construction pathway offers modules in Digital Design Management; Sustainable Design Practice; and Innovation in Construction.

All the modules on the course incorporate a degree of flexibility to allow you to direct your learning according to your career aspirations and development needs.

The Masters Research Project is a major piece of work on a topic of your choosing which allows you to further shape your degree to your requirements.

All modules are delivered using a mix of learning and teaching styles that include lectures and small group seminars; workshops based on cases studies; action learning sets based on student-centred research; and directed learning using internet based forums. Much emphasis is placed on current developments and this will be supported by guest lectures and seminars as appropriate.

ASSESSMENT

A wide variety of assessment methods is employed to provide both a challenging and stimulating experience. These typically include individual or group reports and presentations, time-constrained or role-playing exercises, literature reviews, design portfolios, and reflection on the learning experience.

ENTRY REQUIREMENTS

You should preferably have an Upper Second Class Honours degree or higher. You will also need to be proficient in written and spoken English as well as numerate and IT literate. Suitable previous degrees include subjects such as architecture, architectural technology, construction, design and engineering. We will consider other qualifications and suitable work-based experience on an individual basis. You will normally be expected to attend a selection interview.

EMPLOYABILITY

There are a wide range of employment opportunities available within industrial, commercial, charitable and governmental organisations. Many of these now employ environmental or sustainability specialists to work as part of larger project teams engaged in core activities.

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