

ARCHITECTURE, MEBD

The Master in Environmental Building Design (MEBD) is a professionally oriented, two-semester, post-professional degree designed for architects seeking new skills and competitive advantage in the growing field of sustainable design. With the renewed urgency of environmental issues—from global climate change to "net-zero" design—architects are faced with demands for new kinds of services that require a new kind of professional. LEED accreditation is a start, helping designers utilize existing technologies, but a wider range of skills is required to achieve real innovation and to meet the needs of clients in this rapidly changing field. New building design, renovation of existing buildings, and environmental analysis at many scales are critical aspects of comprehensive environmental design. The program culminates in a Bioclimatic Design Studio that explore the limits of architectural design for climate and its integration with innovative mechanical systems.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2024 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.

For more information: <https://www.design.upenn.edu/architecture/graduate/master-environmental-building-design-mebd>

Curriculum

A total of 10 course units are required.

First Year			
Fall			Course Units
ARCH 7510	Ecology, Technology, and Design		1
ARCH 7520	EBD Research Seminar		1
ARCH 7530	Building Performance Simulation		1
Select 2 Designated Electives			2
	Course Units		5.00
Spring			
ARCH 7080	Bioclimatic Design Studio		2
ARCH 7180	History and Theory of Architecture and Climate: Challenges and Opportunities for the 21st Century (or Designated Elective)		1
ARCH 7540	Performance Design Workshop		1
Select 1 Designated Elective			1
	Course Units		5.00
	Total Course Units		10.00