

MASTER OF HIGH PERFORMANCE BUILDINGS

The post-professional Master of High Performance Buildings is an academic degree, offered jointly by the College of Architecture and the Department of Civil, Architectural, and Environmental Engineering. It is intended for students, with professional degrees in architecture or a bachelor of science degree in engineering, seeking to develop a better understanding of the theories, methods, and technologies necessary to achieve high performance, energy efficient, healthy, and sustainable buildings, with an emphasis on the integrated design process in which architects and engineers work together to achieve common goals.

Admission Requirements

Minimum GRE requirements: 292 quantitative + verbal and 2.5 analytical writing.

Code	Title	Credit Hours
Required Courses		(15)
CAE 513	Building Science	3
CAE 556	Net Zero Energy Building Design I	3
CAE 557	Net Zero Energy Building Design II	3
ARCH 546	Architecture Studio VI: Advanced	6
Elective Courses		(15)
Select a minimum 15 credit hours from the following: ¹		15
ARCH 483	Material: Transparent	3
ARCH 502	Advanced Topics in History and Theory I	3
ARCH 509	Topics in Advanced Technology	3
ARCH 513	Mechanical and Electrical Building Systems for Architects I	3
ARCH 514	Mechanical and Electrical Building Systems for Architects II	3
ARCH 551	Design of Energy-Efficient Buildings I	3
ARCH 552	Design of Energy-Efficient Buildings II	3
ARCH 597	Special Problems	0-3
CAE 466	Building Electrical/Lighting Systems Design	3
CAE 467	Lighting Systems Design	3
CAE 474	Introduction to Building Information Modeling	3
CAE 506	Building Envelope Rehabilitation	3
CAE 515	Building Energy Modeling	3
CAE 517	HVAC Systems Design	3
CAE 524	Building Enclosure Design	3
CAE 526	Energy Conservation in Buildings	3
CAE 550	Applied Building Energy Modeling	3
CAE 553	Measurement and Instrumentation in Architectural Engineering	3
CAE 569	Construction Methods, Cost Estimating, and Project Budgeting	3
CAE 597	Special Problems	0-3
ENVE 576	Indoor Air Pollution	3

ENVE 597	Special Problems	0-3
Total Credit Hours		30

¹ Maximum 12 credit hours from 400 level elective courses allowed.