

# GRADUATE CONCENTRATIONS

## Program Description

Certain CABE graduate programs require that a student choose a concentration to establish a focus area within the primary discipline. Students enrolled in a master's program that does not require a concentration may elect to declare a concentration in order to pair their major discipline with another architecture related field. A concentration allows students to group electives together in a meaningful way, providing a set of courses that provides supplemental study in a particular subject area. Options for graduate concentrations are determined by the academic programs and consist of a minimum of nine (9) credits in the subject area. Guidelines for available concentrations are below:

- A student may not use the same course for credit in both the primary discipline and area of concentration. In other words, only general elective credits can be applied to the concentration.
- Concentrations typically consist of at least one required course, plus a selection of courses from which the student may choose.

Any substitute elective course from within the concentration must be approved by the program director of the area of concentration.

## Construction Management, 9 Credits

This concentration introduces construction management concepts and principles as applied to contemporary practice and investigates the intersecting roles of construction manager, architect, client, and general contractor. Topics encompass planning, programming and documentation from pre-construction to project close-out; legal aspects relative to environmental protection, contract documents; insurance and bonds; labor relations and inspection; project control; heavy construction skills and ethics; and the development of analytical and communication skills.

Code	Title	Credits
Select three of the following:		9
CMGT 607	Intro to Construction Proj Mgt	3
CMGT 609	Construction Site Operations	3
CMGT 401	Codes and Specifications	3
CMGT 614	Materials & Mthds of Construc	3
CMGT 618	Heavy Const Principle&Practice	3
<b>Total Credits</b>		<b>24</b>

## Geographic Information Systems (GIS), 9 Credits

This concentration in GIS (Geographic Information Systems) provides students with the opportunity to learn and apply advanced spatial techniques and spatial thinking to various disciplines related to design of the built environment. Courses span introduction to advanced concepts and include desktop as well as internet technology

Code	Title	Credits
GEOD 610	Introduction to GIS	3
Select two of the following:		6
GEOD 615	Adv GIS:Urbn Spctl Anlytcs 1 (Fall)	
GEOD 617	Adv GIS: Urb Spial Anlytcs II (Fall)	
GEOD 625	Inter GIS Tech for Design &Dev (Fall)	
<b>Total Credits</b>		<b>9</b>

## Historic Preservation/Urban Revitalization, 9 Credits

This concentration provides a foundation in the field of historic preservation. Courses cover contemporary practice and fieldwork, urban revitalization and sustainability issues, building conservation, methods of archival research, standards for documentation, American architectural traditions, as well as design considerations in the adaptive reuse of historic structures.

Code	Title	Credits
MHP 621	Issues in Contemporary Preservation	3
Select two of the following:		6
MHP 602	Uncovering the Past: Tools, Methods & Strategies	
MHP 624	Architectural Forensic and Documentation	
MHP 626	Building Conservation	
MHP 603	Restoration & Rehabilitation of Modernist Buildings	
MHP 622	Adaptive Reuse & Urban Revitalization	
ARCH 672	American Architecture	
ARCH 671	Vernacular Architecture	
<b>Total Credits</b>		<b>9</b>

## Interior Architecture, 9 Credits

This concentration introduces students to both theory and application of interior architecture in the built environment. Students will be grounded in the methodologies of interior architecture, focus on the design and construction of the built environment through an interiors perspective, consider how human behavior influences the built environment and consider how the well-being of humans and the natural environment influences interior design. Students will also learn how the interaction of space, form, light, color, materiality and furniture transforms our lived experience in buildings.

Code	Title	Credits
Select three of the following:		9
IARC 603	Hist of Design 2 for Int Arch	
IARC 604	Construction Documentation	
IARC 610	Text & Materials for Interiors	
IARC 607	Interior Building Technology (interior detailing)	
IARC 608	Light and Color (lighting design)	
IARP 502	Design 2	
IARC 614	Furniture Design	
IARP 502	Design 2	
IARC 601	Design 3 for Interior Arch	
<b>Total Credits</b>		<b>9</b>

## Real Estate Development, 9 Credits

This concentration introduces the economic, social and physical issues inherent in environmentally and fiscally sustainable real estate and land-use development. Through real-world case studies presented by leading developers, coursework encompasses market analysis and valuation, finance and investment, legal issues of ownership and land-use, public-private partnerships, urban regeneration and adaptive reuse, construction science and management, in addition to multiple design and development paradigms and their long-term local, national, and global impacts. Sustainable strategies inform a curriculum sensitive both to the ethical dimension of development and to the parameters of a capital-driven market.

Code	Title	Credits
SDN 627	Sust Adv & Chg Mgmt	
<b>Total Credits</b>		<b>9</b>

Code	Title	Credits
MRE 601	Sustain Real Estate Dev Proc	3
Select two of the following:		6
MRE 620	Case Study Studio:UrbanRevital	
MRE 638	Case Study:Sust Afford Housing	
MRE 630	Real Estate Valuation&Analysis	
MRE 615	Real Estate Fin & Investment	
MRE 635	Public Private Partnerships	
MRE 625	Real Estate Law & Eth Pract	
<b>Total Credits</b>		<b>9</b>

## Sustainable Design, 9 Credits

The concentration introduces students to the theory of sustainability and how it is applied in the built environment. Students will be grounded in the methodologies of sustainable design, learn to measure, predict and design for thermal comfort, adaptable opportunities and resilience across scales. Students will also learn how to design and calculate sustainable systems, and learn to evaluate, compare, perform life cycle analyses of materials.

Code	Title	Credits
Select three of the following:		9
SDN 601	Principles & Methods of Sustainable Design (Fall or Spring)	
SDN 602	Adaptive & Resilient Dsgn Sdio (Fall online)	
SDN 603	Sustainable Building Systems (Spring online)	
SDN 604	Life Cycle Assess & Circ Ecmy	
<b>Total Credits</b>		<b>9</b>

## Sustainable Leadership, 9 Credits

This concentration prepares students to design and deliver sustainability initiatives in current or future organizations. With the curriculum's project-based approach, students will build vital skills in problem scoping, systems modeling, solution framing and change management and immediately apply these skills to the sustainability challenges facing assigned organizations or clients.

Code	Title	Credits
Select three of the following:		9
SDN 601	Principles & Methods of Sustainable Design	
SDN 626	Models & Metrics for Sust Orgs	
SDN 625	Environmental Impact Anal.	