

## Graduate Certificate

**HEALTHCARE DESIGN INTEGRATION****CENTRAL FLORIDA'S DESIGN SCHOOL**

Central Florida is home to some of the state's highest rated health care providers. These hospitals also generate large construction projects to satisfy patient volume. The certificate aims to fill a gap identified by the healthcare design industry which seeks interdisciplinary team members to imagine, plan, and evaluate future health care environments utilizing evidence-based methods. Citylab-Orlando is an off-campus program of the University of Florida School of Architecture, College of Design Construction and Planning. The program draws from the core strengths of the College of Design Construction and Planning: Architecture, Landscape Architecture, Interior Design, Construction Management, and Urban Planning.

**A HEALTHCARE DESIGN TRANSFORMATION**

The certificate curriculum is the result of University and healthcare design industry collaboration, and instruction will include lectures, workshops, design projects and informal conversations among students and leading healthcare design professionals that ensures content relevance and an understanding of prevailing and cutting-edge practices in the industry. Graduates of this program are team leaders who will draw methodically from knowledge of the history, developments, current practice, and innovations in healthcare environments to propose evidence-based and assessable designs to meet goals, improve outcomes, and add new knowledge. The University of Florida, recognizing the needs of this industry, offers this Graduate Certificate to develop leaders for the healthcare design industry.

**INTERDISCIPLINARY LEADERSHIP**

While this graduate certificate is offered through the school of architecture, it expects interdisciplinary cohorts. The certificate provides applicants that have attained previous degrees in architecture, landscape architecture, interior design, construction, engineering, health professions, and health sciences, with specialized knowledge in healthcare facilities design.

Upon completion of the certificate students will be prepared to take the Center for Health Design, Evidence-Based Design Certification (EDAC) exam.

**+70**  
billion  
\$

Healthcare U.S. Construction Sector in 2025 (in Billion U.S. Dollars). The South will dominate growth - 40% of total healthcare CPIP.

**60**  
percent

Firm's productivity boost from innovating in regulation, contracts, design processes, procurement, execution, technology, materials, automation, and workforce. (Reinventing Construction: A Route to Higher Productivity. McKinsey & Company 2017)

**HEALTHCARE DESIGN CAREERS**

Facilities Architect  
Design Manager  
Design Director  
Construction Manager  
Project Manager  
Program Manager  
Landscape Architect  
Land Planner

Interior Design  
Facilities Engineering  
Architectural Engineering

**TOP TRANSFORMATION AREAS IN HEALTHCARE DESIGN**

1. Flexibility
2. Design-build, prefab and modular
2. Wellness with healing
3. Patient, family, staff experience & tech

(BD+C Healthcare Annual Report 2024)

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**HEALTHCARE DESIGN INTEGRATION**

## GRADUATE CERTIFICATE

The GC-HDI is a credential for students with undergraduate or graduate degrees who wish to undertake advanced study and research in Themed Environments. Students entering the program follow a structured curriculum and depending upon their academic qualifications may be required to take additional coursework prior to starting the degree program. The degree program requires students to develop an individual focus of study that will serve as the foundation for thesis research completed in the final semester of the program.

## PROGRAM REQUIREMENTS

The graduate certificate requires a minimum of 19 credits and is normally completed in one year (2 academic year semesters and a 12-week summer semester) or alongside Master of Architecture degree tracks, and consists of the following coursework,

## REQUIRED COURSES

- > **ARC5xxx Introduction to Healthcare Design (3 credits)**
- > **ARC5993 Integration Practices for the Built Environment (3 credits)**
- > **ARC6242 Research Methods (3 credits)**
- > **ARC6xxx Planning and Design for Healthcare Environments (3 credits)**
- > **ARC6xxx Healthcare Design Practice (3 credits)**
- > **ARC6xxx Codesign Lab for Healthcare Environments (4 credits)**

The degree program is the result of University and themed environment industry collaboration. Instruction will include lectures, workshops, design projects, and informal conversations among students and leading industry professionals that ensures content relevance and an understanding of prevailing and cutting-edge practices in the industry.

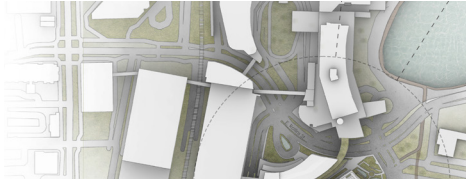
## GRADUATE CERTIFICATE IN HEALTHCARE DESIGN INTEGRATION WITH MASTER OF ARCHITECTURE (MARCH+HDI)

The certificate shares 15 credit hours with the Master of Architecture degree. It adds 4 credit hours, and one semester to a Track One (Advanced Program) Master of Architecture Degree. The Graduate Certificate in Healthcare Design Integration when stacked with the MArch degree requires that the Thesis or PILOT required for the MArch degree be focused on a healthcare topic.

Applicants for the Master of Architecture Degree must apply to the University of Florida Graduate School and complete the online application. <https://dcp.ufl.edu/architecture/graduate-program-application/>  
Admission requirements and application instructions for the Graduate Certificate: <https://graduateschool.ufl.edu/academics/certificates/#DE>

To find out more, visit: <https://dcp.ufl.edu/hdi/>  
or email us: [CityLab-Orlando@ufl.edu](mailto:CityLab-Orlando@ufl.edu)  
CityLab-Orlando Director: [Stephen D. Bender, AIA](#)  
Program Administrative Assistant: Maggie Hayes



**Graduate Certificate**
**HEALTHCARE DESIGN INTEGRATION**

**SYNOPSIS OF CORE COURSES**

**ARC 5xxx Introduction to Healthcare Environments (3 credits)** is an overview of four core areas in healthcare design: history, research, planning/design, and practice. It examines the social, technological, and anthropological history of placemaking for wellness and healing. It examines applications of evidence-based design in improving healthcare environments. It identifies programmatic elements and relationships in healthcare facilities design. It exposes healthcare facilities systems: organizations, construction, and administration.

**ARC5993 Integration Practices for the Built Environment (3 credits)** is an active immersion into practices of creativity and innovation enhanced through integration. Collaboration, a precondition, is furthered with the application of integration methods - sharing decision-making knowledge. In this project-based learning course, students create individual works, perform group projects, map integrative practices, and measure team performance outcomes. The course investigates the effect of collaboration in defining and redefining organizations and environments and culminates with an exploration of current integrative design-thinking methods.

**ARC 6242 Research Methods (3 credits)**

The application of methodical inquiry, research, makes design an academic discipline. Introducing a range of methods makes creative, human-centric, evidence-based design (EBD) possible - and opens students to a community of research. Students identify problems, define goals and objectives, locate quality sources of relevant evidence, critically interpret and synthesize the evidence, and finish a rigorous literature review and research proposal.

**ARC 6xxx Planning and Design for Healthcare Environments (3 credits)** examines the components and system of environments for health ranging from wellness to acute care environments. We analyze major planning and design strategies enabling students to critique the functional and formal relationships in healthcare environments. Students

will differentiate types of healthcare facilities and the programmatic elements of outpatient and inpatient facilities. Students will identify problems, ideate with evidence to develop design proposals. This course builds on knowledge gained in Introduction to Healthcare Design. Course content provides knowledge in support of Co-Design Lab for Healthcare Environments.

**ARC 6xxx Healthcare Design Practice (3 credits)** is an examination of the context where architects and designers must act with expertise. Healthcare design takes place in an interwoven system of laws, business strategies, community needs, evidence, construction constraints, that influence design decisions. We design spaces for healing while maintaining functionality for healthcare professionals. Students will identify an innovation, evaluate efficacy, then propose an iteration tested among their peers and experts. This course builds on knowledge gained in Introduction to Healthcare Design. Course content provides knowledge in support of Co-Design Lab for Healthcare Environments.

**ARC6xxx Codesign Lab for Healthcare Environments (4 credits)** is a project-based application of integrative design thinking methods for healthcare. Students identify a challenge in healthcare environments. Students apply creative processes guided by evidence toward meaningful design concepts and projects that meet constraints and are assessable. Students iterate and evaluate solutions using metrics and expert input. The Co-design Lab for Healthcare Environments is the final course in the curriculum for the proposed Graduate Certificate in Healthcare Design Integration (GC-HDI). This course builds on knowledge gained in Introduction to Healthcare Design, Integration Practices for the Built Environment, Research Methods, Planning and Design for Healthcare Environments, and Healthcare Design Practice. Students use the core knowledge to approach an open, complex, dynamic, and networked healthcare problem that can be solved through implementing evidence-based design.

## PROGRAM OF STUDY

**Graduate Certificate in Healthcare Design Integration  
 Recommended Program of Study  
 19 credits, 3 semesters - 12 months**

## Fall Semester (9 credits)

- Introduction to Healthcare Environments (3 credits)
- Integration Practices (3 credits)
- Research Methods (3 credits)

## Spring Semester (6 credits)

- Planning and Design for Healthcare Environments (3 credits)
- Healthcare Design Practice (3 credits)
- Summer Semester (4 credits)
- Codesign Lab for Healthcare Environments (4 credits)

**Graduate Certificate in Healthcare Design Integration  
 with Master of Architecture (MArch+HDI)**

The certificate shares 15 credit hours with the Master of Architecture degree. It adds 4 credit hours, and one semester to a Track One (Advanced Program) Master of Architecture Degree. The Graduate Certificate in Healthcare Design Integration when stacked with the MArch degree requires that the Thesis or PILOT required for the MArch degree be focused on a healthcare topic.

**Recommended Program of Study**

## Year 1 (28 credits)

## Fall Semester (12 credits)

- Introduction to Healthcare Environments (3 credits) (H/T option)
- Integration Practices (3 credits)
- Adv Graduate Studio 1 (6 credits)

## Spring Semester (9 credits)

- Planning and Design for Healthcare Environments (3 credits)
- Adv Graduate Studio 2 (6 credits)

## Summer Semester (7 credits)

- Healthcare Design Practice (3 credits)
- Adv. Structures (4 credits)

## Year 2 (19 credits)

## Fall Semester (9 credits)

- Research Methods (3 credits)
- Adv Graduate Studio 3 (6 credits)

## Spring Semester (6 credits)

- Professional Practice (3 credits)
- Thesis/MRP Research Preparation (3 credits)

## Summer Semester (4 credits)

- Codesign Lab for Healthcare Environments (4 credits)

## Year 3 (6 credits)

## Fall Semester (6 credits)

- Thesis or PILOT with healthcare topic (6 credits)

