Course code: **ARCH 3512**

Course title: **Architectural Design V –Adaptive Reuse Design Studio**

Class hours/credits:1 lecture hour and 8 lab/studio hours, 5 credits

Semester: **Spring 2024**

Mode of Instruction: **In person**

**Instructors:** Lia Dikigoropoulou D478 Mon Wed 12:00PM - 3:20PM

Miguel Maldonado D477 Mon Wed 8:30AM-11:50 AM

Ioannis Oikonomou and Eirini Tsachrelia D479 Mon Wed 8:00AM–11:20 AM

Christian Bailey and Juan Roque Urrutia E471 Mon Wed 6:00PM - 9:20PM

Jeremy Siegel OL-10- LEC Online-Synchronous Tue 6:00PM- 6:50PM

**Course coordinator:** academic year 2023-2024

[Lia.Dikigoropoulou66@login.cuny.edu](mailto:Lia.Dikigoropoulou66@login.cuny.edu)

**Course Catalog Description:**

An investigation of the adaptive reuse of buildings with a focus on projects involving the redesign and expansion of existing structures. Research, documentation and redesign of an existing structure from concept to design development are integral to the course. Addresses the integration of structure, lighting, interior materials, finishes, space programming and furniture layout. Students are required to meet current design and functional needs of the design problem’s program as well as code requirements.

**Prerequisites:**  (ARCH 2412 or ARCH 2410) with a grade of C or higher or [an AAS degree in an architecturally-related field and (ARCH 1291 or ARCH 1212) with a grade of C or higher]

Equivalent to old course ARCH 3510

**Co-requisite:**

none required.

# **Recommended Text:** The Interior Design Reference & Specification Book updated & revised: Everything Interior Designers Need to Know Every Day

by [Chris Grimley](https://www.goodreads.com/author/show/5735460.Chris_Grimley), [Mimi Love](https://www.goodreads.com/author/show/933754.Mimi_Love),published by Rockport Publishers 2018

The Interior Dimension: A Theoretical Approach to Enclosed Space

[Joy Monice Malnar](http://www.wiley.com/WileyCDA/Section/id-302475.html?query=Joy+Monice+Malnar), [Frank Vodvarka](http://www.wiley.com/WileyCDA/Section/id-302475.html?query=Frank+Vodvarka), published by John Wiley and Sons, Inc., 1991

Color, Space, and Style: All the Details Interior Designers Need to Know but Can Never Find

by [Chris Grimley](https://www.goodreads.com/author/show/5735460.Chris_Grimley), [Mimi Love](https://www.goodreads.com/author/show/933754.Mimi_Love), published by Rockport Publishers 2007.

**Suggested Reference:** Interior Graphic Standards, 2nd Edition  by [Corky Binggeli](http://www.wiley.com/WileyCDA/Section/id-302475.html?query=Corky+Binggeli) and [Patricia Greichen](http://www.wiley.com/WileyCDA/Section/id-302475.html?query=Patricia+Greichen) , published by John Wiley and Sons, Inc., 2010

Architectural Graphic Standards [12th Edition], by Ramsey and Sleeper, published by John Wiley and Sons, Inc., 2016.

**Suggested Text:** Texts will be assigned according to the subject covered that day.

**Required Materials,** **Tools, and Software:**

Rhino, Photoshop, InDesign Illustrator

**Recommended Materials,** **Tools, and Software:**

AutoCAD. Model Building

**Course Context:**

optional for courses, it could give sequencing information in addition to the description in the college catalog.

**Attendance Policy:**No more than 10% absences are permitted during the semester. For the purposes of record, two late arrivals are considered as one absence. Exceeding this limit will expose the student to failing at the discretion of the instructor due to lack of class participation and mastery of class material.

**Academic Integrity:**Students and all others who work with information, ideas, texts, images, music, inventions and other intellectual property owe their audience and sources accuracy and honesty in using, crediting and citation of sources. As a community of intellectual and professional workers, the college recognizes its responsibility for providing instruction in information literacy and academic integrity, offering models of good practice, and responding vigilantly and appropriately to infractions of academic integrity. Accordingly, academic dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension and expulsion.

**Student Accessibility:**

City Tech is committed to supporting the educational goals of enrolled students with disabilities. If you have or think you may have a disability, you may be eligible for reasonable accommodations or academic adjustments as provided under applicable federal, state, and/ or city laws. You may also request services for temporary conditions or medical issues under certain circumstances. If you have questions about your eligibility and/or would like to seek accommodation services and/or academic adjustments, please contact the Student Accessibility Center. [web site: <https://www.citytech.cuny.edu/accessibility/> Email: Accessibility@citytech.cuny.edu ]

**Diversity and Inclusive Education Syllabus Statement:**   
This course welcomes students from all backgrounds, experiences and perspectives. In accordance with the City Tech and CUNY missions, this course intends to provide an atmosphere of inclusion, respect, and the mutual appreciation of differences so that together we can create an environment in which all students can flourish. It is the instructor’s goal to provide materials and activities that are welcoming and accommodating of diversity in all of its forms, including race, gender identity and presentation, ethnicity, national origin, religion, cultural identity, socioeconomic background, sexuality and sexual orientation, ability, neurodivergence, age, and etc. Your instructor is committed to equity and actively seeks ways to challenge institutional racism, sexism, ableism and other forms of prejudice. Your input is encouraged and appreciated. If a dynamic that you observe or experience in the course concerns you, you may respectfully inform your instructor without fear of how your concerns will affect your grade. Let your instructor know how to improve the effectiveness of the course for you personally, or for other students or student groups. We acknowledge that NYCCT is located on the traditional homelands of the Canarsie and Lenape peoples.

**Alerts Reporting:**   
Use your official city tech e-mail for all correspondence. Check it regularly for class announcements and information. Throughout the semester, you may receive messages about achievements, goals, and requirements in this class. If the message indicates an issue, you may be contacted by the Student Success Center (<https://www.citytech.cuny.edu/ssc/student-success-services.aspx>). A Student Success Center Coach will reach out to you by phone, text, and email to offer support and suggest additional resources to support your achievements in this course.

**Grading** and c**ourse requirements:**

One Design project with two phases. One phase will be commercial component and the second phase the residential component

Phase 1  50%

Phase 2    50%

**Each Phase will be evaluated based on:**

**Grading:** 45% Research Assignments (Site Analysis, precedent study, program of spaces, concept design)

40% Final Design

10% Material Journal

5% Class participation

**A final grade of C or higher is required in this course to use it as a prerequisite for subsequent courses.**

**Learning outcomes, objectives and assessment:**

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| --- | --- |
| **General Education Learning Outcomes / Assessment Methods** | |
| **Learning Outcomes** | **Assessment Methods** |
| Upon successful completion of this course the student shall be able to: | To evaluate the students’ achievement of the learning objectives, the professor will do the following: |
| 1. **Develop** a schematic design to the next level of detail: Design Development. | 1. **Review** students’ creative process (initial sketches through to the final project) by means of frequent pin-ups. |
| 1. **Integrate** furniture, lighting, plumbing, interior detailing and finishes into their design. | 1. **Review** students’ ability to incorporate materials and furnishing into design work. |
| 1. **Formulate** alternate design solutions for the renovation of interior details of existing buildings taking into account aesthetic and building code requirements. | 1. **Review** students’ ability to incorporate a concept into their design work. |
| 1. **K.3 Integrate Learning** of various components from site, program, code into a design project. | 1. **Evaluate** final design presentation for key elements integrated successfully into project. |

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| **National Architectural Accrediting Board (NAAB) Students Performance Criteria (SPC)/ Assessment Methods** | |
| **Learning Outcomes** | **Assessment Methods** |
| Upon successful completion of this course the student shall be able to:  (Realm . Number) title [depth] | To evaluate the students’ achievement of the learning objectives, the professor will do the following: |
| 1. (PC.2.) Design   Evaluate how the program instills in students the role of the design process in shaping the built environment and conveys the methods by which design processes integrate multiple factors, in different settings and scales of development, from buildings to cities. | 1.Review students Process of Developing their design ideas through graphic and written assignments. |
| 1. (SC.5) Design Synthesis  How the program ensures that students develop the ability to make design decisions within architectural projects while demonstrating synthesis of user requirements, regulatory requirements, site conditions, and accessible design, and consideration of the measurable environmental impacts of their design decisions | 2. **Evaluate** through assignments the ability to logically formulate program from a specific use along with ordering the spaces based on adjacency, and **Demonstrate** the needs of the user in the design based on research, programing and site analysis. |

**File Naming:**

All digital files must be submitted in the following format:

Course number semester/year\_Professor initials \_Project Name\_ Student Name (file number)

**For example: ARCH3512\_ SP24\_LD\_A01Logo\_John Smith (01)**

**Course structure:**

A series of problems will be assigned to be developed by the student and presented to the class through architectural drawings and/or models.  Ongoing critiques and final jury presentations will be an integral part of the course.   

**Weekly Course Outline**: [tentative subject to change by the instructor]

**Extent and duration of projects**

**Phase 1**

7 weeks

*Commercial project,* small scale project on a specific urban site

**Phase 2**

8 weeks

*Continuation of project one with design development with residential aspects*

**Course Outline:**

**Week 1:  Introduction** to course content and overview with discussion of the various factors affecting the design development of a design problem.  Discussion of human space and needs.

Introduction to Phase 1 of the design project. Analysis and development of facility function, image, public appeal density and urban impact.

Site visit.

Assignment: Analysis of existing building drawings, its systems, urban impact & program. Site model

**Week 2**: **Documentation of Site Analysis**

Examples of projects where site analysis made changes that impacted design. SITE STRATEGY DIAGRAM

**Week 3: The Use of Precedent Studies**

As designers we benefit from a comprehensive understanding of precedents. We use diagrams to convey information and relationships in a building. By researching and examining examples of similar work, and similar conditions we evaluate and interpret and translate for our own use.

Precedent studies and analysis and development of program requirements for facility.

Assignment : Research Precedent Studies

**Week 4:**  **Programming – Matrix and Bubble Diagrams/Design Alternative**

Introduction to spatial Organization, program development and space planning

Assignment: Space adjacencies bubble diagram and matrix

**WEEK 5:** **Parti / Developing Conceptual Ideas**

Assignment: Development of Parti and Schematic Plans.

3 Collages and 3 models per collage

Conceptual Ideas and development of schematic design

**Week 6:  Presentation Organization and Layout**

Development of massing/plans/section based on bubble diagram**.**

Review of project and discussion of presentation techniques and models

**Week 7: Jury critique of Phase 1 and Introduction of Phase 2**. Discussion of the differences between Residential and Commercial design in relationship to materials, codes, fixtures and space planning

Mid-term Pin up

Floor Plans with furniture layout

Exterior elevation in context

Interior elevations

Sections

Color scheme

3D representation, physical model and digital model

**Week 8**: **Specifications** **- Intro to Pinterest/Material application in design**

Discussion of a material board and finish schedule and its uses.

Introduction to Material Journal

**Week 9**: **ADA Bathroom and Kitchen**

Commercial bathroom discussion including material, fixtures and ADA layout. Enlarged bathroom with materials and fixture required. Discussion of differences of residential and commercial interior materials, finishes and colors.

Discussion of a material board and finish schedule and its uses.

**Week 10**: **Furniture Layout- Bedrooms/Lobby**

**Week 11**: **Flooring + Lighting**

Discussion of various lighting techniques, ceiling types and different lighting types.  A lighting plan and cut sheets of lighting selections required

**Week 13: Landscaping and Outdoor Spaces**

Discussion of entrance, signage, exterior space, landscaping and elevation. Elevation incorporating these elements required. Design development Pans, Sections Elevations.

**Week 14:**  Review and development of all aspects of the design development and detailing of the project as previous discussed.  Preparation of final documents for final Jury.  The introduction of color and rendering into final presentation drawings.

**Week 15: Final  Jury**

Part 1 – Design options explored with the final design the base of the Youth Hostel – incorporating the public spaces along with one additional space – bookstore, co-work space, activity (darts, ping-pong, music space…) that incorporates the community.

Part 2 – Design the bulk of the Youth Hostel that accommodates the rooms, outdoor space, support space and the offices. This is a new addition that brings in structure and exterior materials.