

1. COURSE

AR403. Capstone project II (Mandatory)

2. GENERAL INFORMATION

2.1 Course	: AR403. Capstone project II
2.2 Semester	: 10 th Semester.
2.3 Credits	: 4
2.4 Hours	: 4 HT; 4 HP;
2.5 Duration of the period	: 16 weeks
2.6 Type of course	: Mandatory
2.7 Learning modality	: Face to face
2.8 Prerequisites	: AR402. Capstone project II. (9 th Sem)

3. PROFESSORS

Meetings after coordination with the professor

4. INTRODUCTION TO THE COURSE

This course develops the student's anteproyecto (AR402, prerequisite) into a complete executive-level architectural project: full technical construction documentation, coordination of building systems and assemblies, compliance with applicable building codes and regulations, and selection of an appropriate project delivery method and contract framework. The course culminates in the final defense (sustentación) of the thesis before a jury, under the continued individualized supervision of the thesis advisor.

5. GOALS

- That the student develops complete executive-level construction documentation for the thesis project, integrating structural, envelope, and building-system assemblies.
- That the student verifies the project's compliance with applicable building codes and regulations, and selects an appropriate project delivery method and contract framework.
- The deliverables of this course are:

Partial: Executive project advance – construction documents, building-system assemblies, and a code-compliance review.

Final: Complete executive project (construction documentation set) and final thesis defense (sustentación) before a jury.

6. COMPETENCES

AG-A02) Applies ethical principles and the standards of professional architectural practice, respecting the legal framework and human diversity. (Assessment)

AG-A04) Communicates effectively and inclusively with the architecture community and society through reports, design documentation, and presentations tailored to different audiences. (Assessment)

AG-A12) Possesses the design skills needed to satisfy building users' requirements within cost constraints and building regulations. (Assessment)

AG-A14) Possesses creative capacity in construction techniques, grounded in a comprehensive understanding of the disciplines and construction methods related to architecture. (Assessment)

7. TOPICS

Unit 1: Executive Project Development (30 hours)	
Competences Expected: AG-A02,AG-A04,AG-A12,AG-A14	
Topics	Learning Outcomes
• Development of executive-level construction documentation: building-system assemblies, structural/envelope coordination, and construction details. • Verification of code compliance (zoning, accessibility, life safety, energy) and selection of an appropriate project delivery method and contract framework.	• Produce executive-level construction documents that correctly coordinate structural, envelope, and building-system assemblies [Evaluar]. • Verify the project's compliance with applicable building codes and regulations [Evaluar]. • Select and justify an appropriate project delivery method and contract framework for the thesis project [Evaluar].
Readings : [AllenIano2019], [AIA2017]	

Unit 2: Final Defense (Sustentación) (30 hours)	
Competences Expected: AG-A02,AG-A04,AG-A12,AG-A14	
Topics	Learning Outcomes
• Preparation of the final thesis defense: presentation boards, portfolio, and oral defense strategy. • Response to jury questions and critique on design, technical, and methodological decisions.	• Produce a design presentation (boards, portfolio, oral presentation) that communicates the complete thesis project to a jury [Evaluar]. • Defend the thesis project's design, technical, and methodological decisions before a jury, responding to critique [Evaluar].
Readings : [Ching2020]	

8. WORKPLAN

8.1 Methodology

Individual and team participation is encouraged to present their ideas, motivating them with additional points in the different stages of the course evaluation.

8.2 Theory Sessions

The theory sessions are held in master classes with activities including active learning and roleplay to allow students to internalize the concepts.

8.3 Practical Sessions

The practical sessions are held in class where a series of exercises and/or practical concepts are developed through problem solving, problem solving, specific exercises and/or in application contexts.

9. EVALUATION SYSTEM

***** EVALUATION MISSING *****

10. BASIC BIBLIOGRAPHY