



SAN GEMINI PRESERVATION STUDIES

**(WVU) Syllabus for ARHS 454  
Professional Field Experience:  
Sketching and Analyzing Historic Buildings  
3 Credit Hours  
(SGPS) SG209 - 3 units**

Summer Semester, 2024

San Gemini Italy,

Session 1 (June 3 – 28)

Lecture: Meets daily 10:30-12:15 for lecture

- (Meets after the ARHS 453 co-requisite lecture 8:30-10:15)

Workshop: Meets daily for four weeks from 2:00-6:00 for the workshop component.

- Students will be divided into two groups. Group 1 will meet in ARHS 454 (this course) and Group 2 will meet in the ARHS 453 co-requisite course. For the second two weeks 1, Group 1 and 2 will switch.

Lead Instructor: Professor Max Cardillo, [mcardillo@iirpsemail.org](mailto:mcardillo@iirpsemail.org)

Office Hours: on site TBA

- Associate Instructor: Professor Michele Benucci (Art Historian)

**\*Must be taken with co-requisite:**

#SG201A, Professional Field Experience: Restoration and Analysis of Historic Buildings in Italy

**No Pre-requisite Required**

**Catalog Description:**

This course develops intellectual skills in identifying and analyzing historic buildings and their cultural contexts. Building typologies, architectural styles, materials, structural systems, and construction methods are discussed. In the sketching workshop and onsite participants develop analytical skills through observational drawing and documentation.

**Overview:**

Lectures focus on the nature of historic buildings both from a material and contextual point of view, so that students can understand buildings in order to analyze and read how they evolve through history. The afternoon workshop is the analysis and documentation of historic buildings in the medieval core of San Gemini, as part of a study of the urban evolution of the city. Participants record and document buildings through sketching (freehand drawing) using pencil on paper. A good tool for recording, sketching is also a useful analytical tool because it is a slow, systematic process that forces the eye and the mind to observe in detail the building or object that is being recorded. In the workshop students receive basic instruction about freehand drawing techniques. This course also includes a series of classes led by external lecturers who deal with various issues related to the field of conservation.

**Summary of Lecture Content**

- 1) Introductory lectures Historical Overview of the region of Umbria. A panoramic view of the history of the region from Pre-Roman times to present.
- 2) Historical tour of the city of San Gemini. Observe the various physical features of the Urban environment as they have developed from Roma times to the present.
- 3) Methods of Describing Buildings and Urban Environment
  - Manual Graphics – sketching, paintings, architectural drawings (2D, 3D)
  - Verbal – legal, surveys, literary
  - Photography – still, cinematic, videos, photogrammetry
  - Digital photo modelling
  - Laser scanning
- 4) Physical and Historical Analysis of Buildings (San Giovanni Battista)
  - Physical description
  - Historical evolution and context
  - Iconography
- 5) Shape of Italian Cities – the classical city
  - Early human settlements
  - Sardinian, Phoenician and Greek Cities
  - Roman Castrum, Colonia, Urban infrastructure
- 6) Ceramics uses in Architecture - Visiting lecturer Elena Lorenzetti
  - Structural uses
  - Special surfaces – roof tiles, floors
  - Decorative elements
- 7) Visit to the archaeological site the Roman city of Carsulae
  - Evolution of the city of Carsulae
  - Features of the Roman city
- 8) Shape of the Italian city – Middle Age
  - Organic developments
  - Bailey, castles and defensive perimeter
  - Central square and markets
  - Planned medieval settlements
- 9) Shape of the Italian city - The Renaissance and Modern City
  - The Ideal City
  - Gun powder and City defensive perimeter
  - The hub and spoke plan
  - The baroque city
  - The industrial city
- 10) Structural System in Historic and Modern Buildings
  - Foundations, walls, columns, beams, trusses, arches, vaults, domes, slabs, frames
- 11) Italian building types - Classical

- Temples, basilicas, domus, villas, insulae, thermae, amphitheater, theaters, stadia, tombs, columbaria.
- 12) Visiting Lecturer TBD
- 13) Italian Building Types – Middle ages
- Christian basilicas, round churches, octagonal churches, city halls, loggia, houses, merchant's houses, palaces
- 14) Italian building types - Renaissance & Modern,
- Renaissance Basilica, Central plan church, domes
  - Bankers palaces, Villas, rural houses
  - Baroque architecture
  - Neoclassicism and revival architecture
  - Rationalism
- 15) Historic Building Materials
- Earth, wood, stone, bricks, lime mortar, hydraulic cements, glass
- 16) Traditional Construction Methods
- Foundations
- 17) Traditional Construction methods
- Walls and columns
- 18) Traditional Construction methods
- Floors, roofs
- 19) Visiting Lecturer TBD
- 20) Traditional Construction Methods - Finishes
- Floors, exterior walls, interior walls, roofs, ceilings
- 21) Air, Heat, light and Power
- Ventilation
  - Heating and Cooking
  - Illumination
  - Electricity

### **Student Learning Outcomes:**

Students who successfully complete this course will be able to:

- identify and analyze historic buildings and their settings.
- demonstrate knowledge of the evolution of the Italian city, building typologies, architectural styles, traditional building materials, structural systems, building components and construction methods.
- develop analytical skills through methodical observation and documentation of historic structures.
- communicate effectively through sketching observations and analysis of buildings.

### **Format**

Morning Lectures: Monday – Friday, 10:30 AM – 12:30 PM (4 weeks)

Location: Piazza Vecchio, Palazzo Vecchio classroom

- Lectures are mostly dedicated to the presentation of material, with some time for

questions and answers.

- There are visiting lecturers who present various topics of interest to building conservation.

Afternoon Workshop: Monday – Friday, 2:00 PM to 6:00 PM (2 weeks, the other 2 weeks will be in ARHS 453)

- Location: Various places in the Medieval Center  
Workshop includes time to carry out sketching assignments, instruction on sketching techniques, and short lectures on topics relevant to the workshop and discussion of the analysis work being done.
  - Past projects include:
    - Restoration of Porta Tuderte (Todi Gate), also known as Porta San Giovanni, 13<sup>th</sup> c
    - The Porta Burgi (Town Gate), 13<sup>th</sup> c.
    - Restoration of the Oratory of San Carlo, also known as the Church of Santa Maria Incertis, 13<sup>th</sup> c.
    - Restoration and Survey of San Giovanni Battista
    - Survey and Restoration of the Church of Santo Gemini
- There also will be an afternoon visit to the nearby ancient Roman City of Carsulae.

### Useful Tools

Laptop computers, digital camera, Photoshop software

### Useful Skills

Freehand drawing, digital photography, Photoshop

### Recommended Readings

Authors	<i>Title</i>	Press
H. Hearder and H.D.P. Waley	<i>A Short History of Italy</i>	Cambridge University Press
Peter Connolly and Hazel Dodge	<i>The Ancient City</i>	Oxford University Press
Jean-Pierr Adam	<i>Roman Building: Materials and Techniques</i>	Taylor & Francis

**Grading:**

Attendance	20%
Sketching Assignment	40%

You will be graded on the correct number and type of sketches for your structure (plans, elevations, details, etc.), completeness, and quality of draftsmanship.

Written Assignment	40%
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Your paper will be evaluated on content, organization, and clarity.

**Grading scale:**

94-100 = A
90-93 = A-
87-89 = B+
84-86 = B
80-83 = B-
77-79 = C+
74-76 = C
70-73 = C-
67-69 = D+
64-66 = D
60-63 = D-
Below 60 = F

**Attendance**

Daily attendance in lecture and workshop components is expected. If you will miss class for any reason please email the professor immediately.

**Assignments / Exam****Sketching assignment**

Produce 10 sheets of sketches: five give a general description of the building and five to present details, components and analytical diagrams.

**Written assignment**

5-page reports, describing the history, evolution and special features of the building analyzed.

**Late Assignment Policie**

Unexcused late assignments will be marked down one-half letter grade. Students should discuss with the professor *beforehand* any reason for anticipated late submission and specify when submission will occur.

## Class Calendar

Date	Day	Lecture 8:30 - 10:15 AM	Lecture 10:30 -12:15	Afternoon Workshop 2:00 - 6:00 (Alternates w/co-requisite)
6/5	Sun			Orientation; welcome dinner
6/6	Mon	Brief Historical Overview of Umbria	Urban Evolution of San Gemini <i>Cardillo</i>	Visit to Roman city of Carsuale 3:00PM-7:00PM
6/7	Tue	<i>Lect. Vallery Tovazzi</i>	Describing Buildings <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I Sketching techniques and materials
6/8	Wed	<i>Lect. Vallery Tovazzi</i>	Physical and Historical Analysis of Buildings (San Giovanni Battista) <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I
6/9	Thu	<i>Lect. Vallery Tovazzi</i>	The shape of Italian cities - The classical world	Sketching workshop <i>Cardillo</i> , Group I
6/10	Fri	Ceramics uses in Architecture <i>Lorenzetti</i>	Architectural Ceramics Technical Features, <i>Lorenzetti</i>	Sketching workshop <i>Cardillo</i> , Group I
6/11	Sat	Free day		
6/12	Sun	Free day		
6/13	Mon	<i>Lect. Vallery Tovazzi</i>	Shape of the Italian city – Middle Age <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I
6/14	Tue	<i>Lect. Vallery Tovazzi</i>	Shape of the Italian city - The Renaissance <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I
6/15	Wed	<i>Lect. Vallery Tovazzi</i>	Building Structural System <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I
6/16	Thu	<i>Lect. Vallery Tovazzi</i>	(visiting lecturer) TBD	Sketching workshop <i>Cardillo</i> , Group I
6/17	Fri	Visiting Lecturer TBD	Italian building types <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group I Presentation
6/18	Sat	Free Day		
6/19	Sun	Free Day		
6/20	Mon	<i>Lect. Vallery Tovazzi</i>	Italian building types <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group II
6/21	Tue	<i>Lect. Vallery Tovazzi</i>	Italian building types <i>Cardillo</i>	Sketching workshop <i>Cardillo</i> , Group II

6/22	Wed	<i>Lect. Vallery Tovazzi</i>	Historic Building Materials <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i>
6/23	Thu	<i>Lect. Vallery Tovazzi</i>	Traditional Construction methods Foundations <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i>
6/24	Fri	(visiting lecturer) TBD		Sketching workshop <i>Cardillo, Group II</i>
6/25	Sat	Free day		
6/26	Sun	Free day		
6/27	Mon	<i>Lect. Vallery Tovazzi</i>	Traditional Construction methods Wall and Vertical Structures <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i>
6/28	Tue	<i>Lect. Vallery Tovazzi</i>	(visiting lecturer) TBD	Sketching workshop <i>Cardillo, Group II</i>
6/29	Wed	<i>Lect. Vallery Tovazzi</i>	Traditional Construction Methods Floors , Roofs <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i>
6/30	Thu	<i>Lect. Vallery Tovazzi</i>	Traditional Construction Methods - Interior Finishes Walls, Floors , Ceilings <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i>
7/1	Fri	Visiting Lecturer TBD	Preservation as a Social process Strategies for conservation of cultural Heritage <i>Cardillo</i>	Sketching workshop <i>Cardillo, Group II</i> Presentation
7/2	Sat	End of Program		

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<https://tlcommons.wvu.edu/syllabus-policies-and-statements>