



remade, renovated, wrecked, repurposed. So, too, are drawings.

Course Objectives

The work in this new chapter continues along the path of adaptation and transformation within the context of architectural history, specifically the revolutionary period in France, England, and Italy. My working theses seeks to “project” * things from the past, like buildings and drawings, into the future to preserve and re-energize them.

This new chapter looks at the formation of various 21st century programmed architectural installations into the revolutionary drawings of the French architect Étienne-Louis Boullée, Claude Nicholas Ledoux, Sir John Soane and of course, our very reliable Italian architect and archaeologist Giambattista Piranesi.

Much of the work of the architect is prospecting historic buildings, preserving, while at the same time refreshing - this refreshing in many instances promoted through installation architecture, some temporary, a strategy by which history is respected, but the prime motivator is the future. Museum, Library, or Media programs would be considered exemplar.

My methodology includes close examinations of these magnificent drawings, many in person, with students generating beautiful high-quality conversations by making orthographic drawings and models inside of these historic masterpieces.

Students' work will be featured in the forthcoming monograph, Quantum Poems, a unique design teaching methodology which is formed around recording the past, present and future based on the multi-world interpretation of quantum physics.

The drawings and collections produced in this volume are the architecture. My inverse approach to architecture only as building creates a freedom expression I loosely define as the “techno-imaginative”. The collections fall into urban categories such as: Domus, Polis, Bibliotheca, Archive, Hortus, Civica, Columbaria, Prata, etc. **where every thought produces a thing, but not everything has been thought.**

Learning Objectives

- Ability to establish and carry out an independent research program, to conduct rational experiments based on common hard-core assumptions, to test theories through trial and error relating to both the conceptual and the material dimensions of the project.
- Analysis, operation, construction, and cost feasibility of net zero energy buildings. The entire semester will focus on developing the building performance and assessment tools and methodologies to support the design of small-scale ecologically-sensitive residential developments.
- Understanding the role of applied research in determining function, form, and energy systems and their impact on human conditions and behavior.
- Understanding of the relationship between human behavior, the natural environment and the design of the built environment.

Georgia Institute of Technology | College of Design |
School of Architecture FALL 2026
ARCH 6049 Design & Research Studio I
Adaptation and Transformation : Installation Architecture
inside of Revolutionary Architectural Drawings
Professor Michael Erik Gamble, Professor and Architect

Keywords: Design History; Descriptive Geometry;
Experiential Phenomena; Masonry/Stereotomy;
Sacred and Profane Space

Mode of Representation: Drawing, Digital and Physical
Models, Drodels

Course Thesis

“Not only is the Universe stranger than we think, it is stranger than we can think.”— Werner Heisenberg, Across the Frontiers

We inhabit at minimum three worlds as homo sapiens. These three worlds are not isolated universes; they are realms or levels within the known universe. Their numbering reflects their temporal order within the known universe. Each succeeding realm is a product of developments within the preceding realm. World three, the **orbis tertius**, is not the platonic realm of fixed ideas, archetypes, or forms. It is the product of matter (orbis primus) and mind (orbis secundo), it corresponds to the current state of knowledge and culture and is constantly being shaped and reshaped by the past, present and potential futures.

Our imaginations are shaped and shape the orbis tertius, and our buildings, cities and artifacts are in fact a witness to history, a record/recorder of history, made of history, and represent history. Buildings and cities, like the people who make them, are repositories of history: made, unmade,

Course Requirements and Deliverables

Studio pin-ups every Monday, workday every Wednesday
Required drawings and models
Evidence of all assignments 1.0-5.0 to be ISO 'A series' format A1, A2, A3 - no 36" wide plotter extrusions, all drawings to be cropped post plotting
Key drawings and models TO SCALE MIN 1/16"=1':
Process panel + project specifications

Site plan analytique panel
Plan oblique (aerial or worms eye)
Section oblique/extrusion - multiples preferred
2x atmosphere/event/mood panel (s)
Process models, site section models, detail assembly models

Course Schedule (subject to change) - All assignments are posted to teams in the "assignments" folder

August 2026

Week 1

18 Mo Convocation
20 We FILM + assignment 1.0

Week 2

25 Mo Pin-up assignment 1.0
27 We Lecture and Workday assignment 2.0

September

Week 3

01 Mo Labor Day Holiday
05 We Workday

Week 4

08 Mo Pin-up assignment 2.0
10 We Lecture and Workday assignment 3.0

Week 5

15 Mo Pin-up and Clean Up
17 We Workday

Week 6

22 Mo Pin-up assignment 3.0
24 We Workday assignment 4.0

October

Week 7

29 Mo Pin-up
01 We Lecture and Workday

Week 8

06 Mo Fall Break
08 We Workday and Open Studio Day
assignment 5.0

Week 9

13 Mo Fall Break
15 We Workday

Week 10

20 Mo Pin-up assignment 4.0
22 We Lecture and Open Studio Day

Week 11

27 Mo Pin-up assignment 5.0
29 We Workday

November

Week 12

03 Mo Pin-up
05 We Workday

Week 13

10 Mo Pin-up
12 We Thanksgiving Holiday

Week 14

17 Mon Non-Studio Courses Cancelled
19 We Reviews
20 Th D+R Final Review

Week 15

24 Mo Post Review Analysis and Discussion
26 We Holiday

December

Week 16

01 Mo School Wide Portfolio Event
05 Thur Clean Up
09 Tu Archiving Deadline
11 Thu End of Term
15 Mo Grades Due

Course Requirements

Each student is expected to attend regularly scheduled class meetings and seminar meetings, and to complete reading assignments and participate in class discussions. Each student is also expected to attend scheduled juries and pinups, and to complete project requirements per the schedule. Attendance is mandatory throughout the studio class period (Tu/Thu 1220 -1810 EST) and work performed in the studio will be for studio only.

Studio sessions begin promptly and end as determined by each instructor. This may at times fall beyond the 6pm

hour, due to the time spent with each student at the desk crit.

You must address any scheduling conflicts with your studio instructor at the beginning of the semester. Please note the meeting dates for the 1pm seminar in the schedule. All-section lectures are designated; all other seminars are by section only and are organized by the instructor. If a class must be missed, you must have an approved University excuse prior to the absence. Missing three classes without an approved excuse will result in a letter grade reduction.

Missing more than three classes, excused or unexcused, will result in a meeting with your instructor and the School Chair Office to determine a course of action.

Modified Operations Guidelines:

Statement regarding Mod Ops in course syllabus. The statement and information about the policy can be found [here](#).

Rules from the Institute:

<https://catalog.gatech.edu/rules/4/>

Grades

30% Class Participation

60% Class Output

10% Portfolio

More here: <https://catalog.gatech.edu/policies/grading-gpa/grading-system/>

Honor Code

<https://policylibrary.gatech.edu/student-life/academic-honor-code>

Course Bibliography

www.quantumpoems.org

THE BOILER PLATE STUFF FROM ADMINISTRATION

Assessment

Assignments are weighted as follows:

Assignment 1 – 5 50 pts

Attendance 10 pts

Midterm Review 10 pts

Final Review 20 pts

Portfolio Submission 10 pts

The grade scale for all individual components of the course as well as for completion of the final course grade will be as follows, and based on meeting the assignment deliverables:

Points	Grade	Description
90 – 100	A	Excellent
80 – 89	B	Good
70 – 79	C	Satisfactory
60 – 69	D	Poor
0 – 59	F	Failure

No incompletes will be awarded without an appropriate reason or a prior meeting between the student and the instructor, either in person or on Teams. All assignments must be completed to receive a passing grade in the class. Incompletes will be granted only under extraordinary circumstances.

CIOS

At the end of the term, students are asked to complete the online course evaluation for all courses at Georgia Tech (<https://gatech.smartevals.com>). Please note that CIOS scores and comments have different degrees of visibility based on roles:

Reporting access by role	CIOS Scaled Results	CIOS Comments	TA's Scaled Results	TA's Comments
Instructor	Their Own	Their Own	All within their own course	All within their own course
TA Supervisor	N/A	N/A	All within their own course	All within their own course
Teaching Assistant	None	None	Their Own	Their Own
School Administration	All within their own unit	None	All within their own unit	All within their own unit
Students	All – Summary only	None	None	None

More information is available here: <https://academiceffectiveness.gatech.edu/surveys/cios/cios-faqs/studentfaq>

Supplemental Information (required for all M. Arch courses)

Professional Standards Addressed

NAAB Conditions for Accreditation
For Professional Degree Programs in Architecture (2020)

The accredited degree program must demonstrate that each graduate possesses the knowledge and skills defined by the criteria below. The knowledge and skills defined here represent those required to prepare graduates for the path to internship, examination, and licensure and to engage in related fields. The program must provide student work as evidence that its graduates have satisfied each criterion.

Criteria

Assessed Areas

This content is **Assessed**, meaning it is a critical component of the course, students are evaluated, and the

program assesses the student performance for accreditation and/or annually.

PC.2 Design—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.

PC.5 Research and Innovation—How the program prepares students to engage and participate in architectural research to test and evaluate innovations in the field.

Practiced Areas

This content is **Practiced**, meaning students practice, understand, and are assessed on it.

PC.6 Leadership and Collaboration—How the program ensures that students understand approaches to leadership in multidisciplinary teams, diverse stakeholder constituents, and dynamic physical and social contexts, and learn how to apply effective collaboration skills to solve complex problems.

PC.7 Learning and Teaching Culture—How the program fosters and ensures a positive and respectful environment that encourages optimism, respect, sharing, engagement, and innovation among its faculty, students, administration, and staff.

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.

COURSE POLICIES

Academic Integrity and Conduct

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. All Georgia Tech students should familiarize themselves with and abide by the Georgia Tech Honor Code: <http://www.catalog.gatech.edu/rules/18/>. Faculty shall report instances of academic dishonesty to the Office of the Dean of Students.

For expectations of student and instructor conduct more generally, consult section 19 of the catalog listed above, entitled “Code of Conduct,” <http://www.catalog.gatech.edu/rules/19/>, and section 22, entitled “Student-Faculty Expectations,” at <http://www.catalog.gatech.edu/rules/22/>.

All persons in the classroom are expected to behave with courtesy towards others and in a way that does not interfere with the regular conduct of the class. Cell phones are to be turned off when students enter the classroom and should remain off for the duration of the class; laptop computers are to be used only for taking notes; and students should not engage in private conversations while the instructor or other students are speaking. Anyone not adhering to these basic courtesies will be asked to leave.

AI Policy

We treat AI-based assistance, such as ChatGPT and Copilot, the same way we treat collaboration with other people: you are welcome to talk about your ideas and work with other people, both inside and outside of class, as well as with AI-based assistants.

However, all work you submit must be your own. You should never include anything in your assignment that you did not write directly without proper citation. You need to use quotation marks for exact phrasing; both direct quotes and paraphrasing require citations (e.g., in-line citations or footnotes/endnotes, as specified by the instructor).

It's important to understand that including anything you did not write in your assignment without proper citation will be treated as a serious academic misconduct case. If you are unsure where the line is between collaborating with AI and copying AI, we recommend the following heuristics:

Heuristic 1: Never hit “Copy” within your conversation with an AI assistant. You can copy your own work into your original composition, but do not copy anything from the AI conversation directly back into your assignment.

Instead, use your interaction with the AI assistant as a learning experience, then let your assignment reflect your improved understanding.

Heuristic 2: Do not have your assignment and the AI agent open at the same time. Like above, use your conversation with the AI as a learning experience, then close the interaction, open your assignment, and let your assignment reflect your revised knowledge.

This heuristic avoids directly integrating AI into your composition environment: just as you should not let a classmate write content or code directly in your submission, you should also avoid using tools that directly add content to your submission.

Deviating from these heuristics does not automatically qualify as academic misconduct; however, following these heuristics guarantees your

collaboration will not cross the line into misconduct. Also, remember that overreliance on AI tools can significantly impact the development of fundamental skills. Additionally, AI environments contain mistakes and ingrained biases that can misrepresent your ideas, intentions, and the demonstration of learning objectives.

All graphic content created with AI tools should be labeled as AI-generated or AI-assisted. Experimentation with various AI tools is highly encouraged, but needs to be clearly identified.

Accommodations for Students with Disabilities

Any student with a disability who may require accommodation should contact the Office of Disability Services at 404-894-2563 or visit <http://disabilityservices.gatech.edu> to make an appointment to discuss their special needs and obtain an accommodations letter. They should also schedule an appointment with the course instructor to discuss their learning needs.

Active Participation/Attendance

Active Participation at all class meetings is mandatory and crucial to the successful completion of the class. Absences will be excused only for medical or family emergencies, Institute-approved events, and religious holidays documented in writing. (According to a new policy, you must notify your instructor in writing during the first two weeks of the semester about any anticipated absences for religious holidays.) Late arrivals will be counted as absences.

Attendance of SoA lectures during studio time on Monday or Wednesday from 12:30-1:30 p.m. is required for M. ARCH students and highly recommended for our BS ARCH, MS, and Ph.D. students.

NOTE: Absences due to special and/or unforeseen circumstances must be discussed with the Instructor as early as practically possible.

Insert your attendance policy. Be certain to include a policy regarding excused and unexcused absences. Be explicit about potential grade reduction due to unexcused absences. Missing three classes without an approved excuse will result in a letter grade reduction. Missing more than three classes, excused or unexcused, might result in a meeting with your instructor and the Architecture Program Office to determine a course of action and can result in an incomplete grade (I) or a failing grade (F) of this course.

Students are highly encouraged to submit any class absence verification that is required due to

documented illness, hospitalizations, accidents, death in the family, family emergencies, and lengthy illnesses to the dean of students.
(<https://studentlife.gatech.edu/request-assistance>)

Approved Communication Platforms

https://gatech.service-now.com/home?id=kb_article_view&sysparm_article=KB0023604

Archiving

At the end of the semester, all students are required to submit physical and/or digital examples of their work to their instructors or administration for archiving no later than one week after the end of term. By enrolling, each student grants a license to reproduce and display their work online, in forthcoming print publications, and in public exhibitions.

[FALL 2025 ARCHIVE](#)

[SPRING 2026 ARCHIVE](#)

College of Design Facility Rules and Guidelines

Please consult the [Georgia Tech Student Handbook](#) regarding the use of facilities and all Institute policies. Aerosol sprays of any kind are strictly banned from the studio and surrounding areas. A spray painting booth is now in operation in the College of Design shop on the ground floor of the East Architecture Building.

Course Expectations & Guidelines

Per the [GT Catalog](#), all work produced in the College of Design as part of a degree program becomes the property of the College; it may be retained or returned at the discretion of the faculty. The faculty of the School of Architecture also reserves the right to refuse credit for any project executed outside the precincts of the College or otherwise produced without proper coordination with the faculty.

Emergencies

In case of emergency (e.g., fire, accident, or criminal act), please call the Georgia Tech Police at 404-894-2500. Please note that Perry Minyard, IT Support Administrator for the College of Design, is also a firefighter and an Emergency Medical Technician (EMT) certified in performing CPR.

Extensions, Late Assignments, & Re-Scheduled/ Missed Exams

See [this catalog page](#) for more information. Instructor to consider the impact of events like the [All-Majors Career Fair](#) and off-campus interviews and to plan accordingly.

Library & Archives

Need to do research but don't know where to start? Contact your Architecture Library subject specialist, Catherine Mancini (catherine.mancini@library.gatech.edu), for research help and information on available resources. Contact your Architecture Archives liaison, Jody Thompson (jody.thompson@library.gatech.edu), for assistance with archival research and collections. Georgia Tech Library website: <https://library.gatech.edu/> Georgia Tech Archives website: <http://library.gatech.edu/archives>

Ownership

For the purposes of continuous improvement efforts, such as accreditations and periodic program reviews, the School will select samples of student work submitted to satisfy course requirements. This includes digital files, papers, drawings, models, etc. Collected samples may be returned to students upon request.

Studio Housekeeping (for design studio only)

Organize Your Space:

Please ensure that your workspace is organized in a manner that respects the needs of those around you. Avoid clutter that may become a nuisance, distraction, or even pose a hazard.

Keep Drawings Filed and Models/Materials Off the Floor:

Our cleaning staff tries to keep the studio clean and tidy. To assist them in their efforts, please keep your drawings properly filed and ensure that models and materials are not left on the floor. **Material left on the floor in studios will be considered trash and will be disposed of accordingly.**

No food during studio hours:

Food is strictly prohibited in studio during class.

Dispose of food-related trash immediately: If you have any food-related trash, please ensure it is promptly placed in one of the designated trash bins after use.

Desk Usage:

Please refrain from using a desk not assigned to you unless you have obtained prior permission.

Work Surface Protection:

It is strictly prohibited to use spray paint, spray adhesive, paint, stain, plaster, concrete, resin, or any similar materials on unprotected desktops, floors, or other work surfaces within the studio, classrooms, corridors, and stairways. These types of production should be carried out at the CoD shop or other designated facilities.

Cutting Materials:

Under no circumstances should materials be cut on an unprotected desk surface. Doing so can lead to damage.

Clean up your workspace:

Please make it a habit to clean up after yourself at the end of each day. This includes organizing your desk, disposing of any trash, and returning equipment or supplies to their proper places.

Laser-cutter room and shop use:

Please clean up after you use any machinery in the CoD shop, DFL, laser cutter rooms, or any other shared work space. **If not properly taken care of, the laser cutter room or any other neglected resource will be closed until it is cleaned.**

End-of-Semester Clean-Up:

At the end of each semester, it is mandatory for all personal belongings and materials to be removed from the studio. Workspaces must be left clean. Studio spaces and lockers will be completely cleaned out over winter break and the summer break, and at the end of the Spring Semester in preparation for the End-Of-Year-Show. The director of operations, the SoA administration, and the CoD administration will send announcements. Students are expected to remove personal belongings, materials, models, tools, clothing, etc., by the provided deadline. Anything left in the studio or in lockers past the provided deadline will be discarded. Failure to comply may result in a grade of "Incomplete" until the workspaces are properly attended to or a grade reduction.

Review Spaces:

Clear your work:

After your presentation, it is crucial that you remove all your work from the review space. Others who need to use the space may dispose of your work.

Dispose of trash:

Please dispose of any trash or waste properly in designated bins.

Protect wall surfaces:

Please ensure that wall surfaces are not damaged or left unclean.

Arrange chairs:

After using the review space, please return chairs to their original positions or leave them orderly within the area.