College of Architecture, Texas Tech University
Fall 2020

COVID-19

If Texas Tech University campus operations are required to change because of health concerns related to the COVID-19 pandemic, it is possible that this course will move to a fully online delivery format. Should that be necessary, students will need to have access to a webcam and microphone for remote delivery of the class. Please refer to the CoA Student Guide/Fall 2020.

MINI_TOPICAL
ARCH 3601 Architecture Design V

Catalogue Description
6 Semester Credit Hours. Prerequisite: ARCH 2504.
Builds on foundational skills through a series of complex constraints and contexts, while emphasizing social, cultural, or civic roles of architectural design.
Open only to architecture majors or to students having permission of the Dean.
Keywords/Topics
Precedent analysis; public/private; communal values; design process; buildings as public acts; city regulations; context

Hybrid format
MW   1:00 – 1:30 pm on-line with entire class
          1:30 – 2:30 pm Face to Face with 2 students
          2:30 – 4:00 pm Face to Face with 3 students
          4:00 – 5:00 pm Face to Face with 2 students
F   1:00 – 4:50 pm on-line with entire class

> **Notes:**
> This format will limit both student exposure and faculty exposure, while allowing at least one Face to Face meeting with each student each week. Presentations will be managed online in two groups of 6 students.
> **After Hour access**: The students with a demonstrated need may have 24-hour access to UrbanTech. Safety concerns regarding the virus will be discussed and a plan designed with student participation.

Key Dates
      Aug 24   All school meeting 1:30–3:00 pm
      Aug 26   Introduction/Syllabus/Schedule
      Sept 7   No Class _ Labor Day Holiday
      Nov 25 – 27 No Class_ Thanksgiving Holiday
      Dec 1   Final Review

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 Instructor: David A Driskill, AIA, Director
                      UrbanTech
                      1120 Main Street, #204
                      Lubbock, Texas 79401
                      Cell 806 543-7165
Coordinator: Dr. Hendrika Buelinckx

Community Liaisons:
                      Dela Esqueda, Director, Parkway-Sommerville Centers
                      Juan Chadis, Lubbock City Council
                      Dan Chamberlains, FBT Architects

Cross Programming: Park/Community Center/Landscape Urbanism

MVRDV, Zhangjiang Future Park, a park and community center for the workers and residents of Zhangjiang Hi-Tech Park in Pudong, Shanghai, China. (ArchDaily)

Engagement Project:
Lubbock ISD has under construction a new school which combines three existing North Lubbock Elementary Schools: Write/Jackson/Guadalupe. The Guadalupe Sommerville Center, an afterschool and summer program, currently located within walking distance of Guadalupe Elementary needs to relocate within walking distance of the new Northside Elementary to serve the larger population. The City of Lubbock has made land available adjacent to the new school for the proposed Northside Community Center. The land is designated as a city park.

Zhangjiang Future Park, a park and community center for the workers and residents of Zhangjiang Hi-Tech Park in Pudong, Shanghai, China.

Context: The site in north Lubbock is the center of Latino culture. The original townsite for Anglo Lubbock is now the Lubbock Lake Landmark. Monterey, a Latino community, segregated by law, was located 2 miles down the canyon. The two communities joined as Lubbock when the Lubbock Lake site relocated adjacent to the new railroad, across the tracks from Monterey, now known as the Guadalupe Neighborhood. The northside communities are wedged between a railway and the Canyon Lakes.

The Daily Toreador

View towards the site
Erskine Street looking Southwest

Teaching Methods/Studio Methods:
We will use multiple platforms. The syllabus and schedule will be posted on Blackboard. Real time studio/conversations and discussions will be on Zoom. Class and individual folders will be on OneDrive.

The studio will follow a professional methodology: context analysis, precedent studies, establishing project goals/aspirations, concept development, schematic design, design development and presentation skills.

Means of Evaluation
Each of the phases mentioned above are assigned a points value with a total of 1000 points maximum. See the schedule for due dates and assigned point value. The points for each phase are a combination of completeness, timely-ness, functional consideration, composition, and clarity of idea presentation.

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Student Learning Objectives
Upon the completion of the studio the student will present evidence of:

1. The ability to analyze architectural precedents and extrapolate precedent-specific architectural strategies to generate conceptual ideas.
2. The ability to identify, distinguish, and incorporate private and public activities into an architectural design solution.
3. The ability to develop and incorporate building operations that promote communal and sustainable values into an architectural design solution.
4. The demonstration of the applied knowledge gained through collateral courses in architectural technology, history-theory-criticism, and representation toward the development of critical and analytical skills serving the design process

Student Performance Objectives
Upon the completion of the studio the student will present evidence of:

1. The ability to analyze architectural precedents to draw meaningful architectural information regarding plan and section organization.
2. The ability to identify site context specific to a given building project and incorporate this information into an architectural design solution.
3. The ability to apply digital and analog design drawing and diagrams to communicate the programmatic needs, design solutions, constructability, and fabrication to others.
4. The ability to demonstrate the selection and application of the appropriate structural system to fulfill not only constructability but also design concept.
5. The ability to organize and manipulate the program towards an environmentally conscious design approach through analytical exercises.

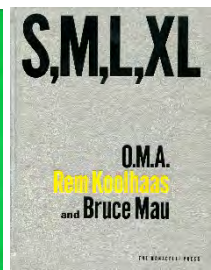**College of Architecture, Texas Tech University**
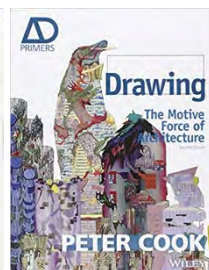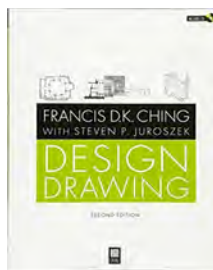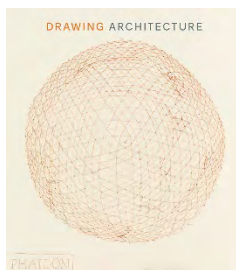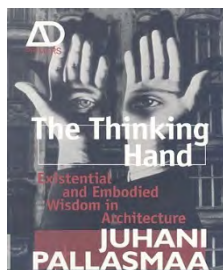**Fall 2020**

READING texts:
Required Readings: (please consult with section instructor)
- Colquhoun, Alan, *Typology and Design Method*, Perspecta, Vol. 12 (1969): 71-74.
- Evans, Robin, *The Projective Cast: Architecture and Its Three Geometries,* Cambridge, Massachusetts: MIT Press, 1995. (Introduction, pp xxv-xxxvii)
- Koolhaas, Rem, *Delirious New York*, New York: The Monacelli Press, 1944. (pp. 9-28; 152-160)
- Vidler, Anthony, *"Diagrams of Diagrams: Architectural Abstraction and Modern Representation,"* Representations, No. 72 (Autumn, 2000): 1-20.
- Stan, Allen, *Diagrams Matter*.
- Sola de Morales, *The Culture of Description*.
- Tanizaki, *In Praise of Shadows.*

Reference Texts:
- Ching, Francis, Architecture: Form, Space, and Order, 4th Edition, New Jersey: John Wiley & Sons, Inc, 2015.
- Ching, Francis, Architectural Graphics, 6th Edition, New Jersey: John Wiley & Sons, Inc, 2015.
- Ching, Francis, Building Structures Illustrated: Patterns, Systems, and Design, 2nd Edition, New Jersey: John Wiley & Sons, Inc, 2014.
- Lewis, Paul, Manual of the Section, New York: Princeton Architectural Press, 2016
- Petit, Emmanuel, Analytical Models in Architecture, New Haven: Yale School of Architecture, 2015.
- Pallasmaa, Juhani, The Thinking Hand: Existential and Embodied Wisdom in Architecture. West Sussex: John Wiley & Sons, 2009.
- Pyo, Miyoung, Architectural Diagrams 1: Construction and Design Manual, Berlin : Dom Publishers, 2011.
Note: A copy of the Reference Texts will be on reserve in the ARCH Library.
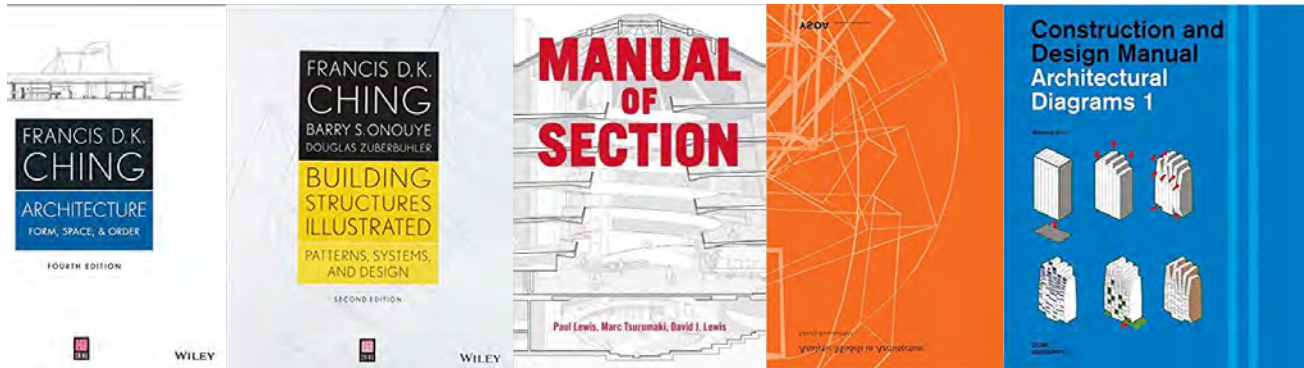
STUDENT PERFORMANCE CRITERIA (NAAB):

Realm A: Critical Thinking and Representation
Graduates from NAAB - accredited programs must be able to build abstract relationships and understand the impact of ideas based on the study and analysis of multiple theoretical, social, political, economic, cultural , and environmental contexts. Graduates must also be able to use a diverse range of skills to think about and convey architectural ideas, including writing, investigating, speaking, drawing and modeling. Students learning aspirations for this realm include:

- Being broadly educated.
- Valuing lifelong inquisitiveness.
- Communicating graphically in a range of media. Assessing evidence.
- Comprehending people, place, and context .
- Recognizing the disparate needs of client, community, and society.

A.1 Professional Communication Skills
Ability to write and speak effectively and use representational media appropriate for both within the profession and with the general public.

A.2 Design Thinking Skills
Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two and three-dimensional design.

A.6 Use of Precedents
Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

Realm B: Building Practices, Technical Skills, and Knowledge

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Graduates from NAAB - accredited programs must be able to comprehend the technical aspects of design, systems , and materials and be able to apply that comprehension to architectural solutions. In addition, the impact of such decisions on the environment must be well considered. Student learning aspirations for this realm include: Creating building designs with well - integrated systems. Comprehending constructability. Integrating the principles of environmental stewardship. Conveying technical information accurately.

B.1 Pre-Design (In Coordination with Core HIST Arch Elective)
Ability to prepare a comprehensive program for an architectural project that includes an assessment
of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions
(including existing buildings); a review of the relevant building codes and standards, including relevant
sustainability requirements, and an assessment of their implications for the project; and a definition
of site selection and design assessment criteria.

B.3 Codes and Regulations (In Coordination with Core HIST & Arch Elective)
Ability to design sites, facilities and systems that are responsive to relevant codes and regulations
and include the principles of life-safety and accessibility standards.

B.4 Technical Documentation (In Coordination with Core HIST, Arch Elective & 3350)
Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

B.5 Structural Systems (In Coordination with Core HIST, Arch Elective & 3350)
Ability to demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

B.7 Building Envelope Systems and Assemblies (Introduction and in Coordination with Arch Elective & 3350)
Understanding of the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

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REQUIRED STUDIO SUPPLIES

Computer
Students must possess and maintain their personal laptop computer for this class. A computer is required from the first day of class and must meet the minimum specifications outlined at http://arch.ttu.edu/Computer_Requirement. Technical problems such as printing issues, server crashes, software incompatibilities, or machine failures are not acceptable excuses for not having required assignment material at the time it is due. It is HIGHLY recommended that you purchase an external hard drive to digitally backup your work on a regular basis throughout the semester.

Software
This studio will use: **Adobe Creative Cloud** which includes **Acrobat, Photoshop, Illustrator, Lightroom and InDesign** and may be rented with an student discount from Adobe at https://www.adobe.com/creativecloud/buy/students.html?PID=7163141

Rhino 6 for 2-d drafting and 3-d digital modeling which can be purchased with an educational discount at http://www.creationengine.com/html/p.lasso?p=19802 or at https://www.rhino3d.com/store?audience=Educational

These and more software programs are available on the computers in CoA's Computer Lab on the 9th Floor and is accessible to all students.

Printing and Plotting
Students will be asked to print their work regularly for desk-critiques. Students should expect to spend an average of $250 on printing over the course of the semester. This cost will vary per student. The Arch Library on the 9th floor also provide printing (please do not change paper).

Drawing and Model Making Tools and Materials
Students are expected to have at all times at their desk @ least **a roll of tracing paper**, a set of white sheets of paper; a set of **mechanical pencils 0.5 or 0.7 mm HB_Black**, and model making materials as needed. Studios may be heavy in physical model-making; you will need: a **self-healing cutting mat**, x-acto blade with #11 **knives**, Elmer's or tacky **glue**, a 24" metal edge **ruler**, architectural scale ruler, triangles, drafting tape and **push-pins**.
You may be required to purchase additional model-making materials during the semester. The shop on the Courtyard level is a good venue to obtain some materials. Model making materials might include: vellum, bristol, acetate, chipboard, museum board, foam core, acrylic sheet, plastic, fabric, metal, piano wire, basswood, *mdf*, plywood, etc. **!!! DO NOT use Spray-Can PAINT !!!** NOT in the building, NOT on campus, NOR off campus. DO USE water-based paint only. Please consult the CoA shop Policy.

STUDIO ETHICS

The studio is the workplace of architecture. It needs to be cultivated as a space of intention, focus, and labor. It is not a place of recreation or recharge. The creation and maintenance of healthy studio culture is the responsibility of all members of the college community.

Therefore, it is important that everyone contributes to and follows a few basic rules at all times:

- Requests from anyone being inconvenienced or impeded from focusing on their work is always valid and must receive respectful responses in addressing/stopping any imposition.
- During class times there will be no digital communication, media display (not formally part of class), or mobile device use in the studio. Emergency communications should be addressed outside of studio space.
- No sound shall be broadcast throughout the studio – use personal headphones.
- Contribute a healthy and safe studio culture by properly disposing of trash and food waste – the studio is not a dining hall, use the student lounge or other spaces as needed.
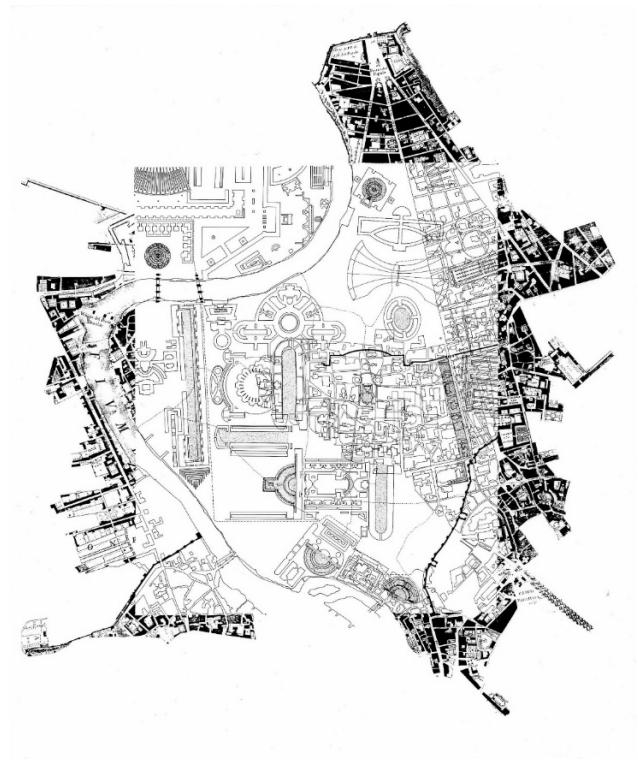
STAN ALLEN. ON DRAWINGS

COVID 19 Information

Face coverings are required. Texas Tech University requires that students wear face coverings while in classes, while otherwise in campus buildings, and when social distancing cannot be maintained outdoors on campus.

Signage. Be attentive to signage posted at external and some classroom doorways that indicates entry and exit ways, gathering and queuing spaces, and availability of masks and hand sanitizer.

Seating assignments. The purpose of assigned seating is to assist in contact tracing, if necessary, and to augment social distancing. Students are expected to sit at a minimum of six feet apart. Seats in your studio will be marked as available and unavailable. A required seating chart will be created once everyone is positioned with appropriate social distancing. There will also be an orderly procedure, designed to ensure social distancing, for exiting the classroom. Please consult the Guidebook distributed at the All School Meeting for detailed information.

Illness-Based Absence Policy
If at any time during this semester you feel ill, in the interest of your own health and safety as well as the health and safety of your instructors and classmates, you are encouraged not to attend face-to-face class meetings or events. Please review the steps outlined below that you should follow to ensure your absence for illness will be excused. These steps also apply to not participating in synchronous online class meetings if you feel too ill to do so and missing specified assignment due dates in asynchronous online classes because of illness.

1. **If you are ill and think the symptoms might be COVID-19-related:**
a. Call Student Health Services at 806.743.2848 or your health care provider. After hours and on weekends contact TTU COVID-19 Helpline at 806.743.2911.
b. Self-report as soon as possible using the Dean of Students COVID-19 webpage. This website has specific directions about how to upload documentation from a medical provider and what will happen if your illness renders you unable to participate in classes for more than one week.
c. If your illness is determined to be COVID-19-related, all remaining documentation and communication will be handled through the Office of the Dean of Students, including notification of your instructors of the period of time you may be absent from and may return to classes.
d. If your illness is determined not to be COVID-19-related, please follow steps 2.a-d below.

2. **If you are ill and can attribute your symptoms to something other than COVID-19:**
a. If your illness renders you unable to attend face-to-face classes, participate in synchronous online classes, or miss specified assignment due dates in asynchronous online classes, you are encouraged to visit with either Student Health Services at 806.743.2848 or your health care provider. Note that Student Health Services and your own and other health care providers may arrange virtual visits.

b. During the health provider visit, request a "return to school" note;

c. E-mail the instructor a picture of that note;
d. Return to class by the next class period after the date indicated on your note.

Following the steps outlined above helps to keep your instructors informed about your absences and ensures your absence or missing an assignment due date because of illness will be marked excused. You will still be responsible to complete within a week of returning to class any assignments, quizzes, or exams you miss because of illness.

If you have interacted with individual(s) who have tested positive for COVID-19:

Maintain a list of those persons and consult Student Health Services at 806-743-2911 or your primary care provider on next steps.

Do not return to class until you are medically cleared by your Health Care Provider.

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