Architectural Design Studio V
Spring Semester 2016

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TTU Catalog Course Description ARCH 3502: Architectural Design Studio V (5:2:8)
Building frame and skin. Teaches design skills centered on the technology of enclosure in building design.
Considers site and building details.

2014 NAAB Student Performance Criteria

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 raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

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.

B.3 Codes and Regulations: 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: 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.7 Building Envelope Systems and Assemblies: 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.

B.8 Building Materials and Assemblies: Understanding of the basic principles used in the appropriate selection of interior and exterior construction materials, finishes, products, components, and assemblies based on their inherent performance, including environmental impact and reuse.

Required Text Books


Additional References

http://arch.ttu.edu/wiki/Studio_Design_Resources_-_Shacklette
http://www.arch.ttu.edu/courses/2016/spring/3502
Student Learning Outcomes:

Upon completion of this course, the student will be able to construct, present, and defend architectural design solutions that integrate the following criteria:

- **Form and Space:** Defined by systems of structure, enclosure, and circulation, organized by hierarchical patterns, articulated by the qualities of shape, color and texture, and determined by the principles of scale, and theories of proportion, aesthetics and compositional arrangement.

- **Technology:** Methods of construction, properties of materials, building systems, sustainable design, and mechanical systems including plumbing, electrical, lighting, and HVAC.

- **Program:** The accommodation of human physical and psychological needs, planning for specific activities particular to building typology, identifying spatial relationships, allocation of spatial sizes and requirements, and providing for life safety and accessibility.

- **Context:** Sensitivity to social precedents both physical and psychological. Consideration of economic factors, urban patterns, regional issues, community needs and aspirations, and culturally diverse attitudes.

- **Site and Environment:** Design for ecological preservation considering natural environment, climate, solar exposure, wind temperature, and precipitation. Minimize negative environmental impact through sustainable design strategies.

- **Design Process:** The intellectual activity of conceptualizing, analyzing, and demonstrating architectural form and space using creative, critical, and logical thinking skills, hand drawing, three-dimensional hand-built models, and electronic media.

- **Precedent and Evidence Based Design (EBD):** Design solutions are to be informed by established principles and noteworthy examples found in professional and academic works. EBD emphasizes the importance of using credible data in order to influence the design process.

Assessment of Learning Outcomes

1. Research assignments: Written reports and oral presentations.
2. Digital Journal: Research documentation, graphic design progress in chronological order.
3. Architectural design project assignments.

Grading

The instructor of record determines all grades for a course. The method of determining a grade will be included in the project schedule for the semester. The grades given, including plus and minus, are A, excellent; B, good; C, average; D, inferior (passing, but not necessarily satisfying degree requirements); F, failure; P, passing; PR, in progress; I, incomplete; and W, withdrawal (not to be confused with a drop). All grading procedures for this course align with the policies of Texas Tech University.

https://www.depts.ttu.edu/officialpublications/catalog/academics_regulations.php

Class Participation and Conduct

The studio meets MWF 1:00-4:20 p.m. and as required. Each student is expected to work on the assigned project during each studio session. For study and critique, the student must have at his/her desk at all times a role of tracing paper, several felt tipped pens, soft sketching pencils, and an architect’s and metric scale. The student is required to keep a journal to chronologically record class work. This is a PDF file which will be kept in each student’s personal folder in the class folder on the server. Smoking or other uses of tobacco, the use of spray paint or aerosol products of any kind are not permitted anywhere in the architecture building. Students are responsible for keeping the design studios clean and neat at all times to promote a healthy educational environment. At the conclusion of the semester, students must remove all projects, supplies and personal equipment. Each student is required to have in class during all sessions a complete and professional workstation including a personal laptop computer, all necessary tools, equipment, and supplies to make hand drawings and sketches, hand-built models, and to be proficient in digital media such as REVIT 2015, Sketch-
Up, Rhino 5, Climate Consultant 5.5, Murray Milne, software, UCLA, 2012, AutoCAD, Photoshop, and FormZ.
All students are required to be on the college network system, to be connection to the internet, have a TTU email account, and to download all necessary software and computer programs offered by the college. Working at home or in the computer lab during class times without the permission of the instructor is not allowed.

Students are expected to be punctual and to attend each session in its entirety. Failure to do so will be considered as an absence. Design projects make up the bulk of the course work and carry a proportional weight in determining the student's grade for the course. There will be intermediate reviews and preliminary design reviews during the course of each project. Attendance and participation in design reviews, discussions, and field trips are mandatory. Students are expected to work in teams as required by the instructor. Projects will be assigned by the instructor commensurate with the academic course requirements, educational goals, and expected learning outcomes.

Class Attendance Policy

The College of Architecture at Texas Tech University takes the professional preparation of its students as future architects seriously. Architectural professionals understand the importance of being present, on time, with work completed. Adherence to these professional attributes begins in architectural education. To that end, excessive absences will, at the discretion of the instructor, cause the deduction of points from a student's grade, or may be cause for repeating the course. Responsibility for class attendance rests with the student. Instructors set an attendance policy for each course they teach. The university expects regular and punctual attendance at all scheduled classes, and the university reserves the right to deal at any time with individual cases of nonattendance. Instructors should state clearly in their syllabi their policy regarding student absences and how absences affect grades.

Professor Shacklette will allow each student to have three unexcused absences during the semester. 2 points will be deducted from the final grade for each additional unexcused absence. Each student is expected to attend all lectures, discussions, jury reviews, and participate in all studios in their entirety.

https://www.depts.ttu.edu/official/publications/catalog/_academics_regulations.php

Arriving late to class, working on anything other than studio work and departing early will be considered as absences.

• Absence due to religious observance: The Texas Tech University Catalog states that a student who is absent from classes for the observance of a religious holy day will be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Notification must be made in writing and delivered in person no later than the 15th class day of the semester. Absence due to officially approved trips: The Texas Tech University Catalog states that the person responsible for a student missing class due to a trip should notify the instructor of the departure and return schedule in advance of the trip. The student may not be penalized and is responsible for the material missed. Whether an absence is excused or unexcused is determined solely by the instructor with the exception of absences due to religious observance and officially approved trips described above. The Center for Campus Life will notify faculty, at the student's request, when a student is absent for four consecutive days with appropriate verification of a health related emergency. This notification does not excuse the student from class, it is provided as a courtesy. The service is explained as follows and can be found on the Center for Campus Life web site at:
http://www.campuslife.ttu.edu/eff/crisis/

The Architectural Design Studio

The architectural design studio provides a unique and beneficial opportunity for students to learn about respect, the design process, communication, collaboration, presentation, criticism, and innovation. Few other teaching methods make it possible for students to share ideas and concepts and learn by doing, in a problem-based, flexible environment. As such, the College of Architecture (COA) at Texas Tech University takes responsibility to ensure the ongoing success of the studio environment seriously. While the primary goal is to educate future architects, it is equally important to enhance interpersonal, ethical, and critical thinking skills so that each student may become a competent professional, leader, and team collaborator. See Texas Tech University College of Architecture Studio Culture Policy:

Reporting Illness.

In case of an illness that will require absence from class for more than one week, the student should notify his or her academic dean. The dean’s office will inform the student’s instructors through the departmental office. In
case of class absences because of a brief illness, the student should inform the instructor directly. Other
information related to illness can be found in the Student Handbook. The Center for Campus Life is responsible
for notifying the campus community of student illnesses, immediate family deaths and/or student death.
Generally, in cases of student illness or immediate family deaths, the notification to the appropriate campus
community members occur when a student is absent from class for four (4) consecutive days with appropriate
verification. It is always the student’s responsibility for missed class assignments and/or course work during their
absence. The student is encouraged to contact the faculty member immediately regarding the absences and to
provide verification afterwards. The notification from the Center for Campus Life does not excuse a student from
class, assignments, and/or any other course requirements. The notification is provided as a courtesy.
https://www.depts.ttu.edu/officialpublications/catalog/_academics_regulations.php

Academic Integrity and Civility in the Classroom

“It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and a high
standard of integrity. The attempt of students to present as their own any work that they have not honestly
performed is regarded by the faculty and administration as a serious offense and renders the offenders
liable to serious consequences, possibly suspension.”

Students are expected to assist in maintaining a classroom environment that is clean, courteous, and conducive
to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless
otherwise approved by the instructor; students are prohibited from engaging in any other form of activity that is
a distraction to others. Inappropriate behavior in the classroom shall result, minimally, in a request to leave class.
Students are required to respect the rights of fellow students.
http://www.depts.ttu.edu/officialpublications/catalog/_AcademicsRegulations.

Submission Policy

The studio professor reserves the right to refuse to grade a project if it is notably incomplete, extremely late, does
not meet requirements, is substantially inferior in quality, or is poorly displayed. All design presentations
must be submitted at or before the assigned time. Any project submitted after the time and date scheduled
will receive a one letter (10 points) reduction in grade, unless the circumstances- documented illness or
death, unusual acts of nature, family crisis-warrant consideration by the faculty and constitute a valid justification.
Deadlines for each project are set by the studio professor. Students are responsible for displaying their projects
securely on the assigned display surfaces. Pins, tacks, staple guns, etc. will not be provided by the College.
Projects may not be removed until the instructor has given express permission. Once a student has turned in a
project and it has been placed on the wall for display, it may not be altered or added to in any way. As University
policy, all work submitted to the studio professor and/or College becomes the property of the University.

Mandatory ADA Syllabus Statement

Any student who, because of a disability, may require special arrangements in order to meet the course
requirements should contact the instructor as soon as possible to make any necessary arrangements. Students should present appropriate verification from Student Disability Services during the
instructor’s office hours. Please note instructors are not allowed to provide classroom accommodations to a
student until appropriate verification from Student Disability Services has been provided. For additional
information, you may contact the Student Disability Services office at 335 West Hall or 806-742-2405.

TTU Statement of Ethical Principles

Texas Tech University is committed to the values of mutual respect; cooperation and communication; creativity
and innovation; community service and leadership; pursuit of excellence; public accountability; and diversity.
http://www.depts.ttu.edu/officialpublications/catalog/_EthicalPrinciples.php

Research/ Design Digital Journal

All the research data-information collected and all aspects of the design phases must be archived in a digital
PDF format in each student’s personal folder in the class folder on the server. Use 8 ½’ x 11’ landscape format.
Reduce images to maintain quality and to allow for fast loading in web viewing. All raw images and renders
are to be organized in sub-folders. The research accumulated is a continuous sequence of your work in progress
from beginning to end representing a timeline. This data will be organized with written journal comments which
explains the images and the designer’s process, thinking, and problem solving actions in chronological order.