

**Architectural Projections**  
**Arch 4341 094**  
**CRN 18257**

**Syllabus**

*Overview*

The design of architecture and its translation to building has historically relied on systems of projection geometry, which until very recently have been considered “tools of the trade”. With the sudden ascendancy of digital representation in architectural practice and in our everyday visual culture, these earlier systems suddenly find themselves displaced from the center of architectural production. However, what is “manual,” tactile or involving the hand in the design process is a cogent agent of creativity and thought. Hand drawings and their attendant structures, rules, relationships, logics and processes can provide tangible analytical knowledge, spatial comprehension and creative insight. If it is recognized that these qualities are inherently computational, then the engagement with the computer can be synergetic. However, such a mutually beneficial and cyclically informative relationship between computer, hand, and drawing is not automatic. Although systems of projection are latent in any software that mediates between three-dimensional content and a two-dimensional screen, their presence are usually automatic and their structure invisible. Architectural projections can be easily generated with aid from software, but the value of constructing projections – and constructing with projections – is easily lost. Drawing from and with computers requires a mastery of the structures that make up the foundation of software: geometry, abstraction, and logic.

*Pedagogical Objectives*

Projection drawing. The course is not a “drafting” course although precise drawings, are required as part of the work. The course will introduce systems of drawing from direct experience, and indirect computational operation. Seeing will be framed as an operation in and of itself and representation will be coupled with making. Subjects such as transparency, figure/ground, sciagraphy, oblique projection, spatial manipulation and analytic operations will build on orthographic and nonparallel projection. The objectives for the course are:

- Augment one’s ability to perceive and observe physical form, space, and their interaction with natural phenomena.
- Conceptual grasp of projection systems and their attributes.

- Development of thinking through drawing (using the process of drawing to build knowledge).
- Ability to use projection (and vision) to operate on /analyze space, form, building.
- Ability to navigate between drawing and making – to start with something and operate on it through drawing, and to begin with drawing and make form/ space from it.
- Ability to record and manipulate phenomena such as transparency, proximity, edge, light and shadow, solid and void.

### *Course Structure*

The first problem introduces seeing as a process of projection, with each student working from and marking on a tableau of their own making. The modified still life will then be recorded in the digital realm through the design of means and methods of measurement. From this new cosmology, students will develop operations, transformations, and projections, ultimately considering inhabitation with the space of their drawing, opening up their recordings to another layer of exploration and inquiry.

### **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.

Page Break

**UNIVERSITY and COLLEGE POLICIES**

**ACADEMIC REGULATIONS**

Please consult the [Texas Tech University Undergraduate and Graduate Academic Catalog 2018-2019](#) and the [Texas Tech University Student Handbook](#) for information about dropping a course, reporting illness, absence due to religious observance and academic integrity.

**ADA 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, please contact Student Disability Services in West Hall or call 806-742-2405.

### **Academic Integrity**

Academic integrity is taking responsibility for one's own class and/or course work, being individually accountable, and demonstrating intellectual honesty and ethical behavior. Academic integrity is a personal choice to abide by the standards of intellectual honesty and responsibility. Because education is a shared effort to achieve learning through the exchange of ideas, students, faculty, and staff have the collective responsibility to build mutual trust and respect. Ethical behavior and independent thought are essential for the highest level of academic achievement, which then must be measured. Academic achievement includes scholarship, teaching, and learning, all of which are shared endeavors. Grades are a device used to quantify the successful accumulation of knowledge through learning. Adhering to the standards of academic integrity ensures grades are earned honestly. Academic integrity is the foundation upon which students, faculty, and staff build their educational and professional careers. [Texas Tech University ("University") Quality Enhancement Plan, Academic Integrity Task Force, 2010]

### **Religious Holy Day**

"Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code §11.20. A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. A student who is excused under section 2 may not be penalized for the absence; however, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

### **Discrimination, Harassment and Sexual Violence**

Texas Tech University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from gender and/or sex discrimination of any kind. Sexual assault, discrimination, harassment, and other Title IX violations are not tolerated by the University. Report any incidents to the Office of Student Conduct, (806)-742-SAFE (7233) or file a report online at [titleix.ttu.edu/students](http://titleix.ttu.edu/students). Faculty and staff members at TTU are committed to connecting you to resources on campus. Some of these available resources are: TTU Student Counseling Center, 806-742-3674, Provides confidential support on campus. TTU 24-hour Crisis Helpline, 806-742-5555, (Assists students who are experiencing a mental health or interpersonal violence crisis. If you call the helpline, you will speak with a mental health counselor.) Voice of Hope Lubbock Rape Crisis Center, 806-763-7273, (24-hour hotline that provides support for survivors of sexual violence.) The Risk, Intervention, Safety and Education (RISE) Office, 806-742-2110, (Provides a range of resources and support options focused on prevention education and student wellness.) Texas Tech Police Department, 806-742-3931, (To report criminal activity that occurs on or near Texas Tech campus.)

### **Civility in the Classroom**

Texas Tech University is a community of faculty, students, and staff that enjoys an expectation of cooperation, professionalism, and civility during the conduct of all forms of university

business, including the conduct of student–student and student–faculty interactions in and out of the classroom. Further, the classroom is a setting in which an exchange of ideas and creative thinking should be encouraged and where intellectual growth and development are fostered. Students who disrupt this classroom mission by rude, sarcastic, threatening, abusive or obscene language and/or behavior will be subject to appropriate sanctions according to university policy. Likewise, faculty members are expected to maintain the highest standards of professionalism in all interactions with all constituents of the university. Consult [TTUs Statement of Ethical Principles](#).

### **LGBTQIA Support**

I identify as an ally to the lesbian, gay, bisexual, transgender, queer, intersex, and asexual (LGBTQIA) community, and I am available to listen and support you in an affirming manner. I can assist in connecting you with resources on campus to address problems you may face pertaining to sexual orientation and/or gender identity that could interfere with your success at Texas Tech. Please note that additional resources are available through the [Office of LGBTQIA](#) within the Center for Campus Life, Student Union Building Room 201, [www.lgbtqia.ttu.edu](http://www.lgbtqia.ttu.edu), 806.742.5433.

### **ATTENDANCE**

The [CoA's Attendance Policy](#) states that students are responsible for attending all scheduled class meetings for the full class period. **A total of four (4) absences is considered excessive, requiring the student to drop the course or receive a grade of "F" in compliance with drop deadlines.** Arriving late or leaving early will be recorded as a partial absence. All absences are considered **unexcused** except absences due to religious observance or officially approved trips. Students are expected to comply with rules for reporting student illness requiring absence from class for more than one week or immediate family member deaths. See [Academic Regulations](#). [Attendance](#) is defined as full participation in all studio activities including group and individual critiques, lectures, presentations, demonstrations, discussions, in class assignments, and possible field trips. Attendance requires students to have the necessary tools and supplies available for all studio activities (i.e.: computer, drawing and modeling materials, and shop safety equipment). Excessive tardiness, leaving early, lack of participation, walking in and out, undivided attention, goofing around, and disruptive behavior will be recorded as an absence. Working on assignments from other classes is not allowed during class time.