



SPATIAL RELATIONS

ARCHITECTURE 1302 DESIGN STUDIO II
SPRING 2018 COURSE SYLLABUS
TEXAS TECH UNIVERSITY /// COLLEGE OF ARCHITECTURE 2018

ARCH 1302 Architectural Design Studio II

COURSE INSTRUCTION

Terah Maher coordinator	terah.maher@ttu.edu office: 409 hours: Fri 2:30-3:30pm, + by appt.
Ophélie Mantz coordinator	ophelia.mantz@ttu.edu office: 301 hours: Thurs 2:30-3:30pm, + by appt.
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morning assistants_	
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Addison Cundiff Romina Cardiello Chas Gold Matt Roye	addison.cundiff@ttu.edu Romina.Cardiello@ttu.edu chas.c.gold@ttu.edu Matthew.Roye@ttu.edu

COURSE MEETINGS

Rm 504, Architecture Building
TTH Mornings 9:30-11:50
TTH Afternoons 2:00-4:20

WORDPRESS COORDINATION ACCESS

For digital copy of syllabus, daily assignments and collective announcements for course, please visit with regularity:

<http://spatialrelations1302.wordpress.com>

CATALOGUE DESCRIPTION

[ARCH 1302] Architectural Design Studio II
Prerequisites: 1301. Development of principles and methods used at various stages of design analysis and synthesis processes. Investigation of space, scale, and proportion. S.
(3) semester credit hours.

COURSE OBJECTIVES

1. Introduce students to the foundational vocabulary, syntax and application of the language of architecture.
2. Collectively establish a momentum of studio culture while communicating graphically, verbally, and through writing, both technical and theoretical ideas of architecture.
3. Define aspirational standards for craft and material sensibilities.
4. Develop critical problem solving skills within architectural design, mediums, and thinking.
5. Create the ability to form clear architectural propositions and make qualitative assessments of architectural design work.
6. Cultivate a spirit of inquiry and action.

STUDENT LEARNING OUTCOMES

1. Create precise and instrumental diagrammatic design drawings, both hand drawn and digitally drawn.
2. Create precise and instrumental diagrammatic design models.
3. Comprehend and communicate through drawing, making, writing, and speaking the foundational language of architecture.
4. Establish and foster a constructive studio ethic of active production and critical reflection.

NAAB CRITERIA

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.

Student 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.4 Architectural Design Skills: Ability to effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

A.5 Ordering Systems: Ability to apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.

"2014 Conditions: NAAB Conditions for Accreditation." naab.org. NAAB, 2014. Web. 23 Nov 2014. http://www.naab.org/accreditation/2014_Conditions

COURSE CALENDAR *spring 2018*

WEEK	DAY	SUBJECT	
WEEK 01	TH JAN 18 F JAN 19	FIRST DAY OF CLASS /// COURSE CONTENTS ALL SCHOOL MEETING: 2PM [Biology 100]	
WEEK 02	TU JAN 23 TH JAN 25	INTRO TO PHASE 1 CHRONOTOPIC PROCESS /// THE CUBE AS CONDITION SPATIAL OPERATIONS IN MASS and VOID	PHASE 1
WEEK 03	TU JAN 30 TH FEB 01	DIAGRAMMING ACTIONS	
WEEK 04	TU FEB 06 TH FEB 08	PLAN TO SECTION / SECTION TO PLAN / PLAN OBLIQUE	
WEEK 05	TU FEB 13 TH FEB 15	PHYSICAL MODELS - MASS & VOID / POSITIVE & NEGATIVE	
WEEK 06	TU FEB 20 TH FEB 22	PHASE 1 DISPLAY /// REVIEW	
WEEK 07	TU FEB 27 TH MAR 01	INTRO TO PHASE 2 PRECEDENT ANALYSIS /// FROM PALLADIO TO EISENMAN PALLADIO, TERRAGNI, KAHN, HEJDUK, BOTTA, GWATHMEY, MEIER, EISENMAN	PHASE 2
WEEK 08	TU MAR 06 TH MAR 08	ANALYTIC DIAGRAM / ANALYTIC MODEL	
WEEK 09	TU MAR 13 TH JAN 15	SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK SPRING BREAK	
WEEK 10	TU MAR 20 TH MAR 22	PHASE 2 FINAL DISPLAY + INTRO PHASE 3 CANYON PROJECT	
WEEK 11	TU MAR 27 TH MAR 29	FIELD TRIP /// CANYON SITE SITE CONDITION /// SITE PLAN /// SITE SECTION	PHASE 3
WEEK 12	TU APR 03 TH APR 05	SITE MODEL	
WEEK 13	TU APR 10 TH APR 12	ARCHITECTURAL STRATEGY /// FROM NON-SITE TO SITE	
WEEK 14	TU APR 17 TH APR 19	PROJECT	
WEEK 15	TU APR 24 TH APR 26	PROJECT	
WEEK 16	TU MAY 01 TH MAY 03 F MAY 04	PHASE 3 CANYON PROJECT /// FINAL REVIEW 2ND YEAR REVIEWS	
WEEK 17	M MAY 07 TU MAY 08	3RD YEAR REVIEWS 4TH YEAR REVIEWS	

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STUDIO STRUCTURE

ARCH 1302 is the second studio within the COA design sequence, and continues to develop the architectural concepts, representation techniques, and process methodologies introduced in 1301. In particular, the awareness of Space, primarily accessed in Design Studio I through observation and hand drawn recording, fully expands from the compressed zone of the picture plane to the 3-dimensional Cartesian grid. Design Studio II posits that space is the essence of architecture, and that the task of the architect is the aesthetic manipulation of space.

As space can only really be perceived as a companion to form, we will conduct a series of exercises that practice Spatial Relations. We will utilize the cube form, as a generic shape, and a cartesian grid, as well as a set of actions in order to guide spatial operations. We will learn how to discuss their relationships in precise architectural language, both experiential and abstract. We will use the Plan Diagram as a framework for elaboration and invention. We will conduct a precedent study exercise to develop reading and synthesis skills in architectural graphic language and to historically locate ourselves within the progression of architectural analysis. Finally, we will develop a project for a single habitant in an actual site, where we will work through site analysis, precedent employment, and iteration of physical models. Thus the learning outcomes from phase 1 and 2 will be used to generate a space, through the cube, which reveals the interaction of *Human Being and Territory*. The resulting space will be represented by a set of technical drawings and physical models. The instrumental and operational condition of the cube will introduce the student to fundamental and historical matters within the discipline of architecture.

The course will be conducted in 3 phases:

Phase 1_CHRONOTOPIC PROCESS : the Cube

Phase 2_PRECEDENT STUDIES from Palladio to Eisenman

Phase 2_ARCHITECTURAL STRATEGY : from Non-Site to Site



Storp Weather Architecture, 2013

READING REFERENCES

- (1) *Experiencing Architecture*, Steen Elier Ramussen, 1959.
- (2) *The Dynamics of Architectural Form*, Rudolph Arnheim, 1977.
- (3) *The Language of Architecture*, Andrea Simitch and Val Warke, 2014.
- (4) *Analysing Architecture*, Simon Unwin, 2009.
- (5) *Architectural Principles in the Age of Humanism*, Rudolf Wittkower, 1949.
- (6) *The Mathematics of the Ideal Villa and Other Essays*, Colin Rowe, 1976.
- (7) *Body, Memory, and Architecture*, Kent Bloomer and Charles Moore, 1977.
- (8) *Conditional Design, An Introduction to Elemental Architecture*, Antony Di Mari, 2014.
- (9) *Architecture and Disjunction*, Bernard Tschumi, 1996.
- (10) *Theoretical Anxiety and Design Strategies in the work of Eight Contemporary Architects*, Rafael Moneo, 2005.

STUDIO MATERIALS / WORKSPACE

All studio materials required in this course are the students' responsibility to acquire. A list of general materials needed for the entire course is listed on the wordpress under Materials. Additional materials specific to each phase will be discussed previous to the beginning of each phase and outlined per assignment. Students are expected to have all needed materials for each class period, as most class periods will be dedicated to in-class exercises requiring active participation.

To ensure that the studio has organized and well maintained work spaces, you are required to prepare your workspace using the following materials:

_4 ply chipboard sheet taped to desktop with drafting tape
_lockable footlocker (max size 36"x20"x18"tall) + locks/chain

You are required to acquire a lockable footlocker that will fit under your desk. You will keep your tools and materials within the locker. There are some additional tall lockers within the studio spaces that may be used to store flat paper materials (with a combination lock). Security of one's own materials is wholly the responsibility of each student.

STUDIO SKETCHBOOK

Students are required to purchase a 5"x8" Moleskine, plain paper sketchbook. (You may use the moleskin you started in 1301). One's sketchbook is an invaluable resource for not only recording and analysis, but as emphasized in this course, a tool for design development. Sketchbooks are thus expected to be with the students at all times. Students are required to record and analyze their surroundings, evolving an understanding of architecture, and the beginnings of their own individual design process. Students should keep all class notes in this sketchbook. In addition, students will be given sketchbook assignments

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coincident with each phase's design problem. Each sketch should be properly labeled as further discussed when assignments are delivered.

STUDIO GOOGLE DRIVE

Everything created in the studio will exist both in analog and digital form via Google Drive. Each student will be given and shared with the professors an individual dropbox to use. All students will employ the same file naming convention for ease of documentation and collective reference. Please note that all digital documentation must adhere to the following:

18_1302_lastname_firstname_phase number_assignment name
ie: 18_1302_maher_terah_1_lightcube.pdf/jpg

Naming for each assignment will be indicated on the wordpress. Please be sure to utilize all lower case letters.

STUDIO INSTAGRAM

A PUBLIC Instagram account is required for this course. Students may either create a new account for this course or use their previous accounts as long as it is set to public. As the course will use this social media platform to post images of process work during the semester, students should disclose their Instagram user names to the Student/Graduate Assistants during the first week.

All images uploaded to the various course hashtags MUST be of academic content. Inappropriate posting will result in disciplinary actions.

Note: If a student does not have access to a smart phone for downloading the software, please let the professor or student assistant know so that we may set up an alternate means of uploading.

STUDIO CULTURE

Architectural school is unlike any other academic culture on campus. We thrive on collective engagement, working in studio, and cross dialogue. Thus it is important to understand that becoming an architecture student means that each of you understand, promote, and engage in the following:

Studio Dialogue - Ideas are born through brainstorming, discussion, and group debate. The practice of critical conversation aids the development of complex ideas and one's ability to communicate these ideas.

Working in studio - It is proven that students who work in studio have more successfully executed projects and more advanced understandings of their work. Find a desk, work in studio.

Studio culture - Unlike other disciplines, architecture demands a type of collective engagement between students. This means that each year level should have a self awareness of themselves and how they are contributing to the College of Architecture as a whole entity. Be sure to drift throughout the building, looking at the work of other year levels, putting

yourself in a place to be heard, to be involved. Go to lectures, burger burns, events. Be a part of the larger culture that is completely unique to architects. This is your education, take charge.

EVALUATION AND GRADING

Criticism of drawings and models is the method of assessment for this course. To receive effective criticism, work must be displayed during critiques to its advantage following guidelines of presentation and project objectives. Students are expected to engage in discussions relative to work in critiques. Evaluation of student performance is based upon daily studio process as well as product /productivity.

Phase 1	30 %
Phase 2	30 %
Phase 3	40 %

Please note that attendance and participation will make up 10% of each phase grade.

Students will be evaluated and graded over the course of the semester on the execution, efforts, and overall involvement with studio assignments. Grading will follow the criteria of the Texas Tech University, College of Architecture Grade Definitions:

A - Outstanding Performance

Work surprising both student and instructor that explores opportunities beyond the limits of the assignment, is inventive in solving all requirements, and crafted in an extraordinary manner.

B - Good Performance

Work that thoroughly meets assignment requirements, is intelligently accomplished, and beautifully crafted.

C - Successful Performance

Work that adequately meets assignment requirements, demonstrates proficiency, and is solidly crafted.

D - Minimally Acceptable Performance

Work that minimally meets assignment requirements, demonstrates partial proficiency, and is weakly crafted.

F - Unacceptable Performance

Work that does not meet assignment requirements to the extent that the student must repeat the course to receive credit.

Above letter grade definitions via TTU COA standards:

http://arch.ttu.edu/wiki/Grade_Definitions

LATE WORK

Technical difficulties, Software licensing, software issues, viruses, crashes, server or print bureau problems, lost, destroyed, milk spilled, broken graphite, and/or any other issues leading to inaccessibility, inability, or inoperability will NOT be accepted as excuses for lack of production, late submissions, or obtaining course content/materials. NO EXCUSES.

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COLLEGE POLICIES

ATTENDANCE

Students are responsible for attending all scheduled class meetings for the full class period. A MAXIMUM of three (3) absences may occur DURING THE SEMESTER. Upon the fourth absence, the absence record will be considered excessive.

Excessive absence will require the student to drop the class in compliance with drop deadlines, or receive a grade of "F". All absences are considered unexcused with the exception of absences due to religious observance and officially approved trips (according to guidelines specified in the TTU catalog).

Attendance is defined as participation in all course activities, lectures, demonstrations, discussions, and labs. *Attendance requires students to have continuity in their daily work. Any unupdated work will be considered as a lack in the participation.* Their textbooks, tools, and materials should be available for all course activities. Leaving early, lack of participation, walking in and out of lectures, other class work, goofing around, etc., will count as an absence. Additionally, please note that each absence will be taken into consideration via your participation grade at the end of the semester, as well as late work, and late arrivals. Late arrivals will be accounted for at the time attendance is taken. At every accumulation of three (3) late arrivals, students will receive an absence.

Students are expected to comply with TTU Center for Campus Life rules for reporting student illness requiring absence from class for more than one week, or for immediate family member deaths.

RETENTION OF WORK

Texas Tech University College of Architecture reserves the right to retain, exhibit, and reproduce work submitted by students. Work submitted for a grade is the property of the college and remains as such until it is returned to the student.

CLASS ETIQUETTE

It is up to each student to ensure that each class meeting is productive, engaging, enlightening, and efficient. As we are all adults here to learn, thus any inappropriate behavior, talking or napping, working on other classes, or ANY computer/cell phone use is strictly prohibited. Cell phones should remain out of sight during studio time. Listening to headphones and streaming/watching videos during classtime is forbidden.

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 Quality Enhancement Plan, Academic Integrity Task Force, 2010]

Students must comply with all requirements as posted on the college web site, and are responsible for maintaining awareness for all policy changes.

_Statement of Ethical Principles <https://www.depts.ttu.edu/opmanual/OP32.01A.pdf>
_Studio Culture Policy http://arch.ttu.edu/w/images/d/da/TTU_CoA_Studio_Culture_Policy_9_4_2015.pdf

Additionally, please consult the Texas Tech University Undergraduate and Graduate Catalog 2016-2017 for information about Dropping a Course, Reporting Illness, Absence Due to Religious Observance, and Academic Integrity.

PLAGARISM

Any student failing to cite reference works, or the work of fellow students, is guilty of plagiarism and will be subject to disciplinary action. For studio culture in particular, unless specifically assigned as collaborative work, all work within a student's studio project is to be crafted by that student's own hand. All work shown in support of a studio project should have been produced specifically for that studio project, by that student.

If any student is found to have broken the Code of Student Conduct, which includes cheating on exams, quizzes, or interactive projects, the student will face academic and/or disciplinary penalties.

All policies for the Code of Student Conduct may be found here: <http://www.depts.ttu.edu/dos/handbook/>

UNIVERSITY CIVILITY POLICIES

CIVILITY IN THE CLASSROOM STATEMENT

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

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to university policy. Likewise, faculty members are expected to maintain the highest standards of professionalism in all interactions with all constituents of the university (www.depts.ttu.edu/ethics/matadorchallenge/ethicalprinciples.php).

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.

RELIGIOUS HOLY DAY STATEMENT

"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 STATEMENT

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 for Student Rights & Resolution, (806)-742-SAFE (7233) or file a report online at 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, <https://www.depts.ttu.edu/scc/> (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, voiceofhopelubbock.org (24-hour hotline that provides support for survivors of sexual violence.) The Risk, Intervention, Safety and Education (RISE) Office, 806-742-2110, <https://www.depts.ttu.edu/rise/> (Provides a range of resources and support options focused on prevention education and student wellness.) Texas Tech Police Department, 806-742-3931, <http://www.depts.ttu.edu/ttppd/> (To report criminal activity that occurs on or near Texas Tech campus.)

COA BUILDING POLICIES

Students must comply with ALL requirements as posted on the college web site:

http://arch.ttu.edu/wiki/Architecture_Building_Policy

WITHIN THE STUDIO SPACES / SHARED SPACES

- _No power tools of any kind are allowed to be used within the studio spaces.
- _Do not put anything down the sink drains within the studio spaces, including food/outside drink/coffee, hazardous material, or any and all paint, plaster, or architectural material.
- _Cutting must be done on cutting mats bought by students. Do not cut directly on tables or desks.
- _Students must work within their own designated works spaces within the 1402 studio. If students are caught utilizing other areas of the building for studio work, they will forfeit their entire project.
- _Failure to follow these in studio instructions will result in a grade deduction by all participating students.

BUILDING CLEAN-UP

Regardless of where students work within the building, it is the STUDENT'S RESPONSIBILITY TO CLEAN UP AFTER THEMSELVES. If this is not done in a timely manner, students will receive point deductions.

WITHIN THE WOOD / MODEL SHOPS

- Please note the shop rules and regulations below (For full list: http://arch.ttu.edu/wiki/Shop_Procedures#Shop_Rules):
- _No horseplay of any type will be permitted in the shop areas.
 - _Entry to the Shop is dependent upon having a current I.D. with sticker attached.
 - _Safety protection devices must be utilized at all times when in the shop.
 - _No treated wood or wood products can be used in the Shop areas or any area inside the College of Architecture building.
 - _No particleboard or treated wood can be used inside the College of Architecture Shop areas. Particleboard and treated wood products when cut, release significant amounts of gasses that are hazardous to your health.
 - _Due to our special circumstance inside the building, with regards to air circulation, any chemicals released into the air inside the Shop area immediately enter the corridors and circulate throughout the entire building.
 - _The twelve-student limit rule can be put into effect any time that crowding becomes a hazard.
 - _Nails and metal fasteners are almost always overlooked and can ruin several hundred dollars of cutting tools in an instant. Special circumstances may dictate the need of using recycled materials and in this case, permission from the Shop Manager must be attained.
 - _Failure to follow instructions, safety instructions, or being disruptive in any way can and most likely will result in you being asked to leave the Shop areas. If such actions become common you can and will lose your Shop privileges.