UNIVERSITY OF WATERLOO SCHOOL OF ARCHITECTURE ARCH 192 DESIGN STUDIO 1 FALL 2019



INSTRUCTORS

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TEACHING ASSISTANTS

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Young people go to university with the aim of becoming architects, of finding out if they have got what it takes. What is the first thing we should teach them?

First of all, we must explain that the person standing in front of them is not someone who asks questions whose answers he already knows. Practicing architecture is asking oneself questions, finding one's own answers with the help of the teacher, whittling down, finding solutions.

Over and over again.

Peter Zumthor Teaching Architecture, Learning Architecture, 1996

INTRODUCTION

ARCH 192 is the first in a series of design studios intended to develop design and representation skills, architectural literacy, and critical thought.

Assignments are organized around a sequence of four design problems which serve as the primary vehicle for students to achieve course objectives. Each project focuses on a set of tasks that simultaneously develop conceptual, technical, and analytical skills, while introducing various approaches to design methodology, specifically two- and three-dimensional composition, transformational operations, analytical/comparative studies, and the exploration of the relationship between architectural space and its site and use. Students will be expected to reflect on and synthesize all lessons, identify their strengths and interests, then take risks by venturing beyond perceived minimum expectations.

COURSE OBJECTIVES

Successful completion of this course demands a skillful and rigorous demonstration of the following:

- 1. the conceptual, technical, critical, and analytical skills required to formulate, develop, evaluate, and articulate a coherent design proposal;
- 2. the ability to raise thoughtful and precise questions, reach well-reasoned and informed conclusions, and test them against relevant criteria and standards, both in existing and proposed work;
- 3. the ability and intuition to effectively manipulate basic architectural elements and relations: form, space, structure, order, proportion, mass, surface, light, program, site, scale in relation to the human body, and an understanding of material properties; and
- 4. the ability to effectively communicate an architectural idea at each stage of the design process verbally, and through two- and three-dimensional drawing and model.

INSTRUCTION

Instruction occurs through individual meetings between faculty and students, seminars, and group reviews. The class will be divided into six sections, each working with a different faculty member, and rotating five times during the term. Within the common framework of the assignments, each instructor will provide additional pedagogical direction to their respective section.

DESIGN STUDIO 1 F19 2 SYLLABUS

SCHEDULE

ARCH 192 is scheduled as follows:

Monday: 9:30 am - 12:30 pm, 1:30 pm - 5:30 pm Thursday: 9:30 am - 12:30 pm, 1:30 pm - 5:30 pm

Students are required to be working in studio for the duration of these scheduled hours. Repeated absences may be cause to request withdrawal from the course. Students are also required to attend and participate in all scheduled reviews, and expected to attend all guest lectures and school events.

STUDIO

Each student is assigned a workspace in studio. Students are allowed unrestricted access to the studio 24 hours a day and seven days a week and are encouraged to work in studio as much as possible. A large component of individual development stems from the experience of and contribution to a collective and cooperative studio setting.

The development of a healthy studio culture involves intensive drawing and making as well as a critical and speculative dialogue regarding one's own work and the work of others. The participation in this evolving dialogue is essential to a student's success, and the success of the larger body of the studio. A student's capacity as a critic of the work of others is a fundamental skill that must be developed by each student. Presence and contribution to all aspects of the studio discourse will be noted by studio faculty.

The studio must be a safe and inclusive environment in which all students can work without unnecessary harassment or distraction. Headphones must be used if a student wishes to listen to music. The student lounge, gym and basketball court are available to any student who wishes to engage in activities unrelated to studio work. The playing of video games or watching of videos or movies during studio hours is strictly prohibited.

DESK CRITS

Studio sessions consist primarily of desk critiques with individual instructors, but also include lectures, workshops, small group pin-ups and seminars, large group reviews with several instructors, and class meetings. Each project will conclude with a formal review.

Desk crits are opportunities to receive advice specific to each student and each project. All students must have work to present at every desk crit. Faculty may refuse to provide a crit to a student who does not present new work.

Studio faculty will not provide answers, but will offer advice to aid in the development of critical thinking. The project and the decisions are ultimately the student's responsibility. To cite misunderstood advice as the reason for poor work is an evasion of this responsibility.

REVIEWS

Formal reviews of each student's work will be scheduled at the end of each project. These reviews are held publicly with the feedback intended to provide students with a better understanding of their own work, its strengths and areas of improvement, and to open up broader discussions about architecture. Any criticism is intended to be constructive and educational.

Reviews are considered an important teaching and learning tool, and are thus instructive and not evaluative. The review may not be a reliable indication of the project's final grade. The evaluation itself will take place in confidential sessions by the studio faculty working as a group, in which all critical aspects of each project will be considered.

Students are encouraged to record the conversation that occurs during their review through the assistance of a classmate who can take notes on their behalf. Video recorders and audio recording devices should not be used in review sessions without the express approval of your instructors.

It is extremely important for each student to participate in not only the review of their own work, but in the reviews of their fellow students' work as well.

ASSIGNMENTS

The design studio is a laboratory and workshop as well a classroom. In studio, students learn through making. Ideas are shaped through a continuous process of experimentation, production, and reflection. It is through this iterative process designs are developed, critically evaluated, reworked and refined - over and over again.

There is no single 'correct' answer to a studio project, or a strictly linear or formulaic process to arrive at a solution. The skills and insights gained from previous studio projects and personal inquiries, along with the theoretical, historical and technical knowledge obtained across all courses are synthesized into cohesive propositions through a process of informed speculation.

There are four assignments for ARCH 192. While the objectives of each project overlap, they each have a specific focus, providing a diversity of conceptual and technical strategies and practices. These assignments also provide opportunities for the development of representational tools including model building, and with the support of ARCH 110, an understanding of the techniques and uses of orthographic, paraline, and perspective projection drawings. The term will culminate in an extended project for the design of a small building of limited complexity that will synthesize the skills acquired through the earlier projects.

A detailed schedule indicating assignment dates and deadlines is included at the end of this document. The grade breakdown for the assignments is as follows:

Project 1	Cube	20%
Project 2	Grid	15%
Project 3	Case Studies	15%
Project 4	House	50%

Detailed descriptions and lectures will introduce each project.

Students are required to document all assignments digitally and post them on the ARCH 192 LEARN site. Grades for each assignment will not be released until this documentation has been received.

LATE WORK

All projects are due in class at the specified time and date. In situations of documented illness or extraordinary circumstance, a *Request for Extension* form must be submitted to the studio coordinator, accompanied by a medical certificate when appropriate.

Work received after the specified deadline without approved extensions will not be accepted.

EVALUATION

All assignments will be assessed on the following general criteria:

- Ambition, clarity and appropriateness of the ideas explored within the work.
- Integrity in the development of the project from initial to final phase.
- Architectural quality and the technical resolution of the proposition.
- Precision and craft of physical artifacts produced.
- The effectiveness and the completeness of project documentation and its capacity to communicate the project's intentions in the author's absence.

The specific basis for the evaluation of each project will be identified in individual project assignments. In addition, grading will reflect student participation, commitment, effort and improvement over the course.

Students must complete all projects and obtain a passing average in order to receive credit for this course. Notwithstanding the cumulative mark from aggregate term projects, failure to earn a passing grade in the final term design project will result in a failing grade for the term.

REQUIRED TEXTS

Neufert Architects' Data, 5th edition, Ernst Neufert, Wiley Blackwell, 2019

RECOMMENDED READING

Readings associated with each project may be made available during the term, either as course material or on reserve in the library. References to notable architectural works or writings will be provided frequently in studio discussions, and you have an obligation to research these references.

General architectural knowledge is vital. It is therefore strongly recommended that you commit a minimum of one hour per week to work in the library. The library is a place of study and musing. In the end, however, there is no substitute for the inevitable hard work of drawing at your board.

WORKSHOP TRAINING

All students must complete mandatory workshop and photo studio training. These will be scheduled during and both ARCH 192 and ARCH 110 class hours, and on Tuesday afternoons.

COMMUNICATION WITH STUDIO FACULTY

It is required that all students use their uwaterloo.ca account for all official academic correspondence, and check this email account regularly. Students should ensure that their LEARN account is active. We expect that all discussions concerning individual projects or any other matter requiring direction, confirmation or advice from faculty will occur during scheduled studio hours. In special circumstances and with prior arrangement, students may email studio faculty regarding their studio projects. All official academic correspondence should be addressed to the studio coordinator.

UNIVERSITY POLICIES

Academic integrity: In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. [Check the Office of Academic Integrity for more information.]

Grievance: A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read <u>Policy 70, Student Petitions and Grievances, Section 4</u>. When in doubt, please be certain to contact the department's administrative assistant who will provide further assistance.

Discipline: A student is expected to know what constitutes academic integrity to avoid committing an academic offence, and to take responsibility for his/her actions. [Check the Office of Academic Integrity for more information.] A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate associate dean. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline. For typical penalties, check Guidelines for the Assessment of Penalties.

Appeals: A decision made or penalty imposed under <u>Policy 70, Student Petitions and Grievances</u> (other than a petition) or <u>Policy 71, Student Discipline</u> may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to <u>Policy 72, Student Appeals</u>.

Note for students with disabilities: AccessAbility Services, located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with AccessAbility Services at the beginning of each academic term.

HOW TO BE A SUCCESSFUL STUDENT

Do This:

- Work in studio.
- Push yourself beyond your comfort zone.
- Trust your eye and trust your gut.
- Identify your interests and skills.
- Maintain a sketchbook to record your design ideas as they develop. Take this with you
 everywhere.
- Maintain a binder or other filing system to organize handouts, readings, loose sketches, research and inspirational images.
- Keep your desk organized.
- Surround yourself with your work. Post your best sketches and inspirational images on your pinup board.
- Learn the value of tracing paper as a design tool.

- Look at lots of images; figure out what you like and what you don't, ask why this is how your intuition will develop.
- Produce work continuously. Design is best done through thinking while you are working, not thinking about working.
- Do not wait for the approval of a studio instructor before you make decisions.
- Exchange ideas with your classmates. Attend as many of your classmates' formal reviews as possible.
- Talk to upper-year students about your work and inquire about theirs. Attend upper-year reviews
 as time permits.
- Attend all guest lectures.
- Spend time in the library. Familiarize yourself with the wider world of architecture.
- If someone suggests you study a specific building or the work of an architect, look it up.
- Take notes during studio lectures. What will be discussed contains useful material for your design work as well as for your general education.
- Take notes during, or immediately after a desk crit.
- Enlist a classmate to take notes for you during a formal review.
- Create a schedule of all your classes, course requirements and deadlines. Block out enough time for everything, including time for yourself.
- Eat well.
- Sleep 8 hours each night

Do Not Do This:

- Don't skip classes.
- Don't be late for studio.
- Don't ever be late for your scheduled review.
- Don't make all-nighters a habit.

STUDY UNITS

1	2	3
Jamie Gu	Mariam Palmer	Joel Wan
Omar Oosthuizen	Ulyana Bunina	Eva Yang
Noah Becks-D'Souza	Julia Richard	Dulce Acosta
Julia Mroz	Alisha Heipel-Bolger	Luca De Vasconcelos-Ricci
Samuel Correa	Adam Cohen	Larissa Mazzacca
Nazaninzahra Alimadadi	Sandra Lyboun	David Dharma
Matthew Lam	Madiha Bhuiyan	Mariam Elghamudi
Linda Pan	Charlotte Teng	Ksenija Lukic
Dhruvi Khamar	Simar Mangat	Alison Yu
Nasrine Khairi-Arancibia	Manav Aggarwal	Roxana Torshizi
Adri Saha	Tianqi Liu	Marisa Giammarco
Nicole Cao	Kari Chen	Celia Lin
Vivian Du	Xin Miao Jiang	Nicole Chan
Falak Nazer		

4	5	6
Romelia Abdollahi Alirezaei	Matthew Roberts	Bernice Balano
Jarin Hoque	Maxwell Steppuhn	Julian Lai
Paul Holley	Jessica Kong	Jason Chen
Mia Cajic	Juhi Puri	Candace Haddy
Aaron Boville	Alexander Doyi	Xi Yue Liu
Nathan Vilela	Shan Lan	Emilio Gonzales
Ruby Liu	Adrien Fera	Connor Rothe
Alexandra Yeung	Meaghan Roberts	Xanades Ivic-Williams
Grace Ma	Jordana Polera	Clay Te Bokkel
Isha Patel	Ke Yang	Mingyuan Ma

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Fangyuan Zhu Juliana Jiang Junseop Kim
Rebecca Mathew Narani Kiriwattuduwa Isabella Ieraci
Natalie Davidson Neli Yuen Priscilla Subramaniam

SCHEDULE

WEEK 1

WELK I	
Thu Sept 05	PROJECT 1 OUT
	P1 intro
	Lecture
	Seminars
	Model workshop

WEEK 2

Mon Sept 09	Desk crits
Thu Sept 12	Desk crits

WEEK 3

Mon Sept 16	Desk crits
	PROJECT 1 DUE (5:00 PM)
Thu Sept 19	PROJECT 1 REVIEW

WEEK 4

Mon Sept 23	MONTREAL
Thu Sept 26	PROJECT 2 OUT
	P2 intro
	Desk crits

WEEK 5

Mon Sept 30	Desk crits
Thu Oct 03	Desk crits

WEEK 6

Mon Oct 07	Desk crits
	PROJECT 2 DUE (5:00 PM)
Thu Oct 10	PROJECT 2 REVIEW
	PROJECT 3 OUT
	P3 Intro

WEEK 7

Mon Oct 14	STUDY WEEK
Thu Oct 17	

WEEK 8	
Mon Oct 21	Lecture
	Desk crits
Thu Oct 24	Desk crits
WEEK 9	
Mon Oct 28	Desk crits
	PROJECT 3 DUE (5:00 PM)
Thu Oct 31	PROJECT 3 REVIEW
	PROJECT 4 OUT
WEEK 10	
Mon Nov 04	Lecture
	Desk crits
Thu Nov 07	Desk crits
WEEK 11	
Mon Nov 11	Lecture
	Desk crits
Thu Nov 14	Desk crits
WEEK 12	
Mon Nov 18	PROJECT 4 INTERIM REVIEW
Thu Nov 21	Lecture
	Desk crits
WEEK 13	
Mon Nov 25	Lecture
	Desk crits
Thu Nov 28	Desk crits
WEEK 14	
Mon Dec 02	Desk crits
	PROJECT 4 DRAWINGS DUE (5:00 PM)
Thu Dec 05	PROJECT 4 MODEL DUE (5:00 PM)
FRI DEC 06	PROJECT 4 FINAL REVIEW