

ARCH 610 FALL 2023

Architectural Analysis and Research

Monday 9:30 am - 12:30 pm, Room 1101

Instructor: Dr Anwar Jaber, with faculty and guest contributions

Contact: anwar.jaber@uwaterloo.ca

Office hours: Mondays, 12:30-2:30, office 2011

1. Territorial Acknowledgement

The University of Waterloo is located on the traditional lands of the Neutral, Anishinaabeg and Haudenosaunee peoples. The earliest peoples were hunter/gatherers of, whom we know only by the artifacts they left behind. The first people encountered by Champlain were the Cholondon "people of the deer" - peaceful Iroquoians. Their neighbours were the Neutral and Petun peoples, along with the Hurons farther north, and south the Anishnaabeg Missisaugas.

The University is situated on the Haldimand Tract, the land granted to the Mohawk of the Six Nations that includes 10 kilometres on each side of the Grand River in 1794 by George III. They came there in exile from their traditional lands in New York State. They reside now on the largest [by population] First Nations Reserve in Canada. They are the direct neighbors of Waterloo Architecture.

We also acknowledge the generations of settlers who have made their home here among us. Often they were looking for the refuge our native ancestors had prepared for them. (Text provided by William Woodworth Raweno:kwas, Elder in Residence)

2. Course Description

This course intends to support graduate students in the development of a master's thesis in Architecture. Throughout the course, we will question what might constitute a thesis in architecture and how one engages in architectural research. We will cover conventions and methods of research within the discipline of architecture, as well as methods of research which may be generated outside the discipline, all while questioning what the disciplinary boundaries might be or might mean. The consideration of precedents, case studies, relevant literature and other design research methods is intended to assist students as they position their ideas within a larger conceptual discourse. Through guest contributions, the purpose of the course is to expose students to epistemological questions, research methodologies, as well as analytical and explorative strategies so as to guide them in their research and design thesis.

Throughout the term, we will consider the discipline, the construction of architecture as an object of research, the intention and foundations of such research, as well as the shifting boundaries of architecture as a practice and research activity. Another objective of Architectural Research and Analysis is to expose students to the range of disciplinary methods and approaches that architectural research and analysis can take from social sciences and humanities, geography and science and others.

3. Course Objectives:

- ✓ Understand what a graduate thesis is in architecture.
- ✓ Create awareness for graduate school and what it entails in terms of students' independent research.
- ✓ Introduce positive habits related to thesis completion, such as time management and writing skills.
- ✓ Gain proficiency in research skills (data collection & analysis; impact on program and design).
- ✓ Practice academic writing through writing workshops and the production of a research proposal.
- ✓ Know and understand services provided by university-wide resources needed for thesis completion, such as those provided by the Office of Research, Student Success Office, and Writing and Communication Centre.
- ✓ Strengthen the ability to speak and write effectively about their architectural thesis.
- ✓ Get the students to appreciate, understand and consider the diversity of needs, norms, values, as well as social and spatial patterns in an architectural project.
- ✓ Gaining an understanding of the different disciplines involved in the development and implementation of architectural projects and research.
- ✓ Gaining an understanding of some of the ethical issues involved in architectural research and practice.

4. Topics and Schedule

Every week, there will be a presentation by different guests. These presentations will also be interspersed with training and information sessions on library research, ethics, or referencing and others. Please check the next page for the full schedule. Please note that, unless otherwise indicated, all guests in the schedule below are professors at the Waterloo School of Architecture.

Date	Faculty/Guest	Time	Notes and Deadlines	
	Anwar Jaber	9:30:9:35	Welcome notes	
01 Sep 11	Stephanie Mutch Architecture Librarian	9:35-10:00	Library Introduction	
	Anwar Jaber	10:00-12:30	Course Introduction Research Difficult Contexts	
			Research 101: Getting started with your research	
			Introduce student groups	
	Jane Mah Hutton Terri Meyer Boake	9:30-10:00 10:00-11:00	Design thesis explained	Assignment 1
Sep 18	Break	11:00-11:15		
	Time Management for graduates (Min Huang, Student Success Office)	11:15-12:15		
	David Correa Maya Przybylski	9:30-10:30 10:30 -11:00	How to approach your thesis	
Sep 25	Break	11:00-11:15		
	Lola Sheppard	11:15- 12:15	Grad Pilot	
04	How to stop reading and start writing! (Emma Dunn, Writing and Communication Centre, University of Waterloo)	9:30-11:00		Assignment 2: Submission Oct 1 st 5:00 pm Presentations Oct 2 nd
	Break	11:00-11:15		
	Anwar Jaber	11:15-12:30	Assignment 2 – group presentations	
Oct 9	Reading Week – No class			
05	Philip Beesley Marie-Paule MacDonald Tara Bisset	9:30-10:00 10:00-10:30 10:30-11:00		
Oct 16	Break	11:00-11:15		
	Linda Zhang Rick Haldenby	11:15-11:45 11:45-12:15		

	Adrian Blackwell David Fortin	9:30-10:00 10:00-10:30		
Oct 23	Elizabeth English (TBC)	10:30-11:00		
	Break	11:00-11:15		
	Tracey Eve Winton Rick Andrighetti	11:15-11:45 11:45-12:15		
	John Straube Mohamad Araji Val Rynnimeri	9:30-10:00 10:00-10:30 10:30-11:00		
Oct 30		11:00-11:15		
	Robert Jan van Pelt Q&A for Meet and Greet Night	11:15-11:45 11:45-12:20		
	Research Meet and Greet	5:00-7:00	Riverside Gallery	With ARCH 692 (TRD1)
	Night	pm		instructors
Nov 6	Anwar Jaber	9:30-11:15	Class discussion: Meet and Greet feedback, midterm check in (anonymous survey). Class vote for open sessions.	Assignment 3: Draft proposal submission on Nov 6 th 5:00 PM
	Break	11:00-11:15		
	Research Ethics Review (Heather Nicole Dekker (Research Office, University of Waterloo)	11:15-12:30		
09	Writing skills workshop (BASE) (Emma Dunn, Writing and Communication Centre,	9:30-11:30		
	University of Waterloo)			
	Break	11:30-11:45		
	Anwar Jaber	11:45-12:30	Class discussion	
Week 10	Anwar Jaber	9:30-10:45	Class discussion: assignment 3 feedback	
Nov 20	Break	10:45-11:00		
	Stephanie Mutch	11:00-12:30		

	Architecture Librarian (TBC) OR Open session – class vote		
	Group writing session in the Loft	9:30-11:00	
Nov 27	Break	11:00-11:15	
	Group writing session in the Loft	11:15-12:30	
Week 12	Open Session – class vote		
Dec 4			
Dec 7			Final Proposal submission

Open sessions are sessions that will be organized during the term based on a class-wide vote. The instructor will offer the students a list of speakers that may be of interest to the class. If students are interested in a particular session (even outside the instructor's list and help in the thesis production journey), the instructor will make every effort to organize the session.

5. Course Requirements and Assessment:

Please see below for this course's requirements:

Assignments	Grade %	Due date
What is your research about?	10%	Sept 18 th
Group Presentation: What is a research proposal for a master thesis?	25%	Submission is due on Oct 1 st at 5 pm Presentations are on Oct 2 nd
Meet and greet night	10%	Oct 31 st
Draft proposal submission	15%	Nov 6 th
5. Final proposal submission	25%	Dec 7 th , 11:59 pm
6. Attendance	15%	Ongoing

1. What is your research about?

10%

At this early stage of your thesis, what do you think your thesis will be about? Please write a brief paragraph that illustrates your research, mentioning the topic and the site/context. What

interests you and why? And what do you imagine your final outcome would be (research or a design thesis?). Please note:

- 1. Your text should not be more than 600 words (±10%). Text be written clearly and should include citations, figure number(s), and footnotes (if needed).
- 2. Include a research question at the end of the text, in addition to the 500 words above.
- 3. Include at least 5 academic references. These must be either journal papers or books. If you would like to add more non-academic and academic references, you are welcome to do that.
- 4. Include a captioned image related to the text.
- 5. Include a title. It is expected that your title will change, but you must have a working title.
- 6. Submission should be no more than a two-page PDF document.
- 7. Submissions should be uploaded to Learn no later than Sept 18th at 10 pm.

Grading criteria for this assignment include following the seven points above.

2. Group Presentation: What is a Research Proposal?

25%

Students will be divided into groups at the beginning of the term. With your group, you are required to conduct research on research proposals suitable for a master's degree. Your research should answer the following questions:

- What is a research proposal for a master's degree?
- What are the key sections of a research proposal?
- Given the group research interests, discuss two examples of research proposals for a master's degree in architecture. The two proposals should be of different research areas (i.e. social vs. technological). Your discussion should include:
 - a. Why did you choose the proposals to discuss?
 - b. Mention one thing that could have been done better in the proposal **OR**
 - c. Mention one thing that was unclear/needed improvements

In addition to answering all three questions above, include one slide with references to your research.

Students will be divided into 8 groups outside their (ARCH 692) TRD1 sections: 7 groups of these groups will have 6 students, and one group will have 4. In groups, students are required to present their research to the class in no more than 6-8 minutes, leaving 4-2 mins for discussion. Presentations should be uploaded in a PDF format to Learn website by Oct 1st 5:00 pm. Presentations will take place in class on Oct 2nd.

Grading criteria for assignment 2:

1. The research conducted answers all three questions above.

- Discussion of selected proposals is not only descriptive and shows depth. It also summarizes or shows what group members learned from the conversation with one another.
- 3. Evidence of group work through group engagement in presentation and discussion.
- 4. The presentation is verbally clear, slides are visually balanced in terms of colors, fonts, text...etc.

3. Meet and Greet night

10%

This is a collaboration between instructors in ARCH610 and ARCH 692 (TRD1 Thesis Research and Design 1). We are planning a Meet and Greet night where ARCH610 students will present their work in TRD1. This will take an exhibition format open to all eligible supervisors and other professors in the school. The success of this night depends on you attending and interacting with the professors and guests. We believe this will be a great opportunity to create a sense of cohort across TRD1 and ARCH610. It will also be fantastic for the professors to see the variety of students' research and informally meet the students. This night is planned on **October 31**st 5-7 pm in the Riverside Gallery.

For this night, you are required to present your TRD1 material in an exhibition format. Each student will have their own space to showcase their thesis progress thus far. For this night, students are required to:

- 1. Produce a (24 x 36 inches) panel showing your thesis progress. The panel must include a working title for your thesis and your name. You can include whatever material you have produced or planning on producing for your thesis.
- 2. Bring in any other physical work or materials that are related to your thesis that you produced or used in TRD1.
- 3. Pin up your panel and prepare any other physical work/material/ design iterations by 4:30 pm the latest.
- 4. Be present next to your panel for the entire duration of the event (5-7 pm).
- 5. Engage and interact with visiting professors and guests.

Please note that you are not required to produce new work for your thesis for this night. You are only required to be present and to bring your physical and research work conducted in TRD1.

Grading criteria for assignment 4 include meeting all the requirements stated above.

4. Draft Proposal Submission

15%

Given the requirements for assignment 2, the guidelines for this assignment will be shared in the first week of October. Deadline is Nov 6th

25%

Given the requirements for assignment 2, the guidelines for this assignment will be released in October. Deadline is Dec 7^{th} .

6. Attendance 15%

Please note that due to the flexible nature of this course, the student's attendance is a must as each class presents something different. Students will lose grades if they don't show up and are only allowed to miss one class during the whole term. Please note that attendance will be taken every class.

6. Course Delivery Platforms & Communication

We will be using additional platforms to deliver, organize and share course content, learning and work. Here is a breakdown of tools we will use in this course:

LEARN will be used to post all readings and course material. All official communication will be coming through and from LEARN, and all assignments must be handed in to a LEARN dropbox. LEARN will also be used for grade recording and release.

MS TEAMS will be used as an unofficial virtual hub for the course to allow the student groups to communicate as needed.

7. COVID-19 Special Statement

Given the on-going situation around COVID-19, students are to refer to the University of Waterloo's developing information resource page (https://uwaterloo.ca/coronavirus/) for upto-date information on academic updates, health services, important dates, co-op, accommodation rules and other university level responses to COVID-19.

Fair Contingencies for Emergency Remote Teaching

To provide contingency for unforeseen circumstances, the instructor reserves the right to modify course topics and/or assessments and/or weight and/or deadlines with due and fair notice to students. In the event of such challenges, the instructor will work with the Department/Faculty to find reasonable and fair solutions that respect rights and workloads of students, staff, and faculty.

8. Late Work

Assignments that are handed in late will receive an initial penalty of 20% on the first calendar day late and a 5% penalty per calendar day thereafter. After 5 calendar days, the assignment will receive a 0%.

Only in the case of a justified medical or personal reason will these penalties be waived, and only if these have been officially submitted to the <u>Undergraduate Student Services Co-Ordinator</u> and accepted by the Undergraduate Office.

Students seeking accommodations due to COVID-19, are to follow Covid-19-related accommodations as outlined by the university here:

(https://uwaterloo.ca/coronavirus/academic-information#accommodations).

9. Passing Grades

The standard minimum passing grade in each ARCH course is 50% with the following exceptions: the minimum passing grade is 60% for all studio courses (ARCH 192, ARCH 193, ARCH 292, ARCH 293, ARCH 392, ARCH 393, ARCH 492, and ARCH 493). Grades below the specified passing grade result in a course failure.

10. CACB Student Performance Criteria

The BAS/MArch program enables students to achieve the accreditation standards set by the Canadian Architectural Certification Board as described here. This course addresses the CACB criteria and standards that are noted on the Accreditation page of the School of Architecture website.

11. Mental Health Support

All of us need a support system. We encourage you to seek out mental health supports when they are needed. Please reach out to Campus Wellness (https://uwaterloo.ca/campus-wellness/ and Counselling Services (https://uwaterloo.ca/campus-wellness/counselling-services).

We understand that these circumstances can be troubling, and you may need to speak with someone for emotional support. Good2Talk (https://good2talk.ca/) is a post-secondary student helpline based in Ontario, Canada that is available to all students.

12. Equity, Diversity and Inclusion Commitment

The School of Architecture is committed to foster and support equity, diversity and inclusion. If you experience discrimination, micro-aggression, or other forms of racism, sexism, discrimination against 2SLGBTQ+, or disability, there are several pathways available for addressing this:

- A) If you feel comfortable bringing this up directly with the faculty, staff or student who has said or done something offensive, we invite you, or a friend, to speak directly with this person. People make mistakes and dealing them directly in the present may be the most effective means of addressing the issue.
- B) you can reach out to either the <u>Undergraduate office</u>, <u>Graduate office</u>, or Director. If you contact any of these people in confidence, they are bound to preserve your anonymity and follow up on your report.
- C) You can choose to report centrally to the Equity Office. The Equity Office can be reached by emailing equity@uwaterloo.ca. More information on the functions and services of the equity office can be found here: https://uwaterloo.ca/human-rights-equity-inclusion/about/equity-office.
- D) <u>Racial Advocacy for Inclusion, Solidarity and Equity (RAISE)</u> is a student-led Waterloo Undergraduate Student Association (WUSA) service launching in the Winter 2019 term. RAISE serves to address racism and xenophobia on the University of Waterloo campus with initiatives

reflective of RAISE's three pillars of Education and Advocacy, Peer-to-Peer Support, and Community Building. The initiatives include but are not limited to: formal means to report and confront racism, accessible and considerate peer-support, and organization of social events to cultivate both an uplifting and united community. You can report an incident using their online form.

13. Academic integrity, grievance, discipline, appeals and note for students with disabilities:

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 their university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4. 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 their 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. In general, you are required to undertake work that you represent as yours by yourself, without copying or adapting work by other, with the exception of work that you derive from others and in turn credit to those others. 'Others' includes AI tools. All work derived from others must be appropriately cited.

Al Policy: Permitted in this Course with Attribution: In this course, students are permitted only to use Generative Al Tools like ChatGPT and Midjourney to support their work. [Insert conditions if applicable.] In order to maintain academic integrity, students must disclose any Algenerated material they use and properly attribute it. This disclosure should include Algeneration whether in whole or part, including images, designs, in-text citations, quotations, and references.

The full extent of images and text passages should be cited. The following statement in assignments may be used to indicate general use of a Generative AI Tool: "The author(s) acknowledges the use of [Generative AI Tool Name], a model developed by [Generative AI Tool Provider], in the preparation of this assignment. The [Generative AI Tool Name] was used in the following way(s) in this assignment: [indicate, e.g. grammatical correction, gathering sources, generating specific images, etc.]."

Caution: When using AI tools, it is important to be aware that the user data supplied might be utilized for training AI models or other purposes. Consequently, there is no guarantee that the information you provide will remain confidential. Instructors and students should exercise caution and avoid sharing any sensitive or private information when using these tools. Examples of such information include personally identifiable information (PII), protected health

information (PHI), financial data, intellectual property (IP), and any other data that might be legally protected.

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

Note for students with disabilities: AccessAbility Services, located in Needles Hall, Room 1401, 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.

Turnitin.com: Text matching software (Turnitin®) may be used to screen assignments in this course. Turnitin® is used to verify that all materials and sources in assignments are documented. Students' submissions are stored on a U.S. server, therefore students must be given an alternative (e.g., scaffolded assignment or annotated bibliography), if they are concerned about their privacy and/or security. Students will be given due notice, in the first week of the term and/or at the time assignment details are provided, about arrangements and alternatives for the use of Turnitin in this course.

It is the responsibility of the student to notify the instructor if they, in the first week of term or at the time assignment details are provided, wish to submit the alternate assignment.

14. Selected Bibliography

Adrian Forty, Words and Buildings New York, N.Y.: Thames & Hudson, 2000, introduction.

Andrew Ballantyne, Deleuze and Guattari for architects, London; New York: Routledge 2007

Andrew Levitt, *Inner Studio: A designer's guide to the resources of the psyche,* Cambridge: Riverside Architectural Press, 2009.

Andrzej Piotrowski and Julia Williams Robinson, eds, *The Discipline of Architecture*, Minnesota: University of Minnesota Press. 2001.

Arie Graafland and Leslie Jaye Kavanuagh, *Crossover. Architecture, Urbanism, Technology,* Rotterdam: 010 Publishers, 2006, Section VIII: Theory and Praxis, pp. 646-703.

Bob Sheil, ed., *Manufacturing the bespoke: making and prototyping architecture,* Chichester: John Wiley, 2012.

Carol J. Burns, Andrea Kahn eds, *Site Matters: Design Concepts, Histories, and Strategies*, New York: Routledge, 2005, pp. 131-152.

Giancarlo de Carlo, "Architecture's Public", in *Architecture and Participation*, ed. by Peter Blundell Jones, Doina Petrescu and Jeremy Till, Abingdon: Spon Press, 2007, pp. 3-22.

lain Borden and Katerina Rüedi Ray, *The Dissertation, A guide for Architecture Students*, London: Routledge, 3rd edition, 2014, "Researching", pp. 20-64.

James C. Scott, Seeing like a state: How certain schemes to improve the human condition have failed, Yale: Yale University Press, 1999, pp. 1-52.

Jane Rendell, 'Architectural Research and Disciplinarity", *Arq: Architectural Research Quarterly,* vol. 8, no. 2, 2004, pp. 141-7.

Jeremy Till, "What is Architectural Research?" RIBA Research Committee Document. 1-6.

John Dixon Hunt, *Historical Ground: The role of history in contemporary landscape architecture,* London, New York: Routledge, 2014.

John Zeisel, *Inquiry by Design*, New York, London: Norton & Company, 2005.

Joseph Rykwert, "Architecture and the Public Good", in *Research and Practice in Architecture*, Helsinki: Alvar Aalto Akatemia, 2001, pp. 8-14.

Linda Groat, David Wang, *Architectural Research Methods,* New York, N.Y.: John Wiley & Sons inc, 2002, "Literature Review", pp. 45-71.

M. Elen Deming, Simon Swaffield, *Landscape Architecture Research: Inquiry, Strategy, Design,* Hoboken, New Jersey: John Wiley & Sons, 2011.

Marjan Colletti, *Digital poetics : an open theory of design-research in architecture*, 1972, Burlington : Ashgate Publishing 2013

Murray Fraser, ed., *Design research in architecture : an overview*, Farnham, Surrey, England : Ashgate 2013, Introduction, pp. 1-14 and "A two-fold Movement": Design Research as Dialectic Critical Practice, pp. 217-248.

Neil Brenner, "What is critical urban theory", City, vol. 13: 2-3, 2009, pp. 198-207.

Paul Feyerbend, *Against Method, Outline of an Anarchist Theory of Knowledge,* London: Verso, 1993, Introduction and Chapter 1, pp. 9-19.

Ray Lucas, *Research methods for architecture*, London, United Kingdom: Laurence King Publishing 2016, pp. 6-57

Soumyen Bandyopadhyay, Jane Lomholt, Nicholas Temple, Renée Tobe, eds, *The Humanities in Architectural Design: A Contemporary and Historical Perspective,* London: Routledge, 2010.

Tapn k. Dhar, Luna Khirfan, "Community-based adaptation through ecological design: Lessons from Negril, Jamaica, *Journal of Urban Design*, vol. 21, no. 2, 2016, pp. 234-55.