



UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE,
PLANNING AND LANDSCAPE

Winter 2024

Course Number	ARCH 696	Classroom	TBC
Course Name	HOUSING: From Macro to Micro [Somerville Design Charette]		
Pre/Co-Requisites			
Instructor	Johanna Hurme	Office Hours/ Location: Zoom	by appointment
	Email: johanna@5468796.ca	Phone: 204.295.7957	
Class Dates	Mandatory in-person lectures, seminars and presentations: Feb 12 – Feb 16, 2023, 9:00am to 5:00pm		
Instructor Email Policy	Students are requested to use the instructor's personal email of johanna@5468796.ca		
Name and Email of Teaching Assistant(s)	N/A		

Course Description:

In the context of urbanized North America, multi-family housing is often perceived as the least attractive and most mundane of architectural typologies – yet by its very nature, it is one of the most sustainable and socially conscious of architectural briefs. In the face of a global housing affordability crisis, the profession of architecture must position itself as an indispensable creative resource.

This course will be divided between two scales of discourse related to multi-family housing in North America. MACRO considers more broad subjects including the ramifications of land use policy on housing affordability, the global impact of the commodification of housing and the strategies being implemented to counteract these effects, as well as current housing forms, the push for mid-rise infill, and the opportunities for innovation that can be found within them. MICRO explores multi-family design objectives through the lens of contemporary practice and an architect's expanded role in challenging contexts. Analyzed via a cross-section of micro design outcomes that have been tested by our practice, we will consider a holistic approach to building development through a range of topics, including site planning strategies, suite livability goals, material innovation, custom fabrication and technical resolution.

OBJECTIVE The course will focus on the missing middle, multi-family housing in its many forms and ownership models, from refugee and social housing to market rate condominiums. As a result of the typology's inherent repetition, and potentially banal programme—as well as the private sector's pursuit of profit at the expense of quality and livability—the margin in which architecture can operate is incredibly narrow.

Grounded in realities of contemporary practice, this course aims to prepare the students for real-world constraints. At the same time, the work should remain optimistic, and deliver on the promise of design to inspire, stir and shape human experience.

METHODOLOGY The course will unfold with series of lectures and seminar discussions to explore various precedent projects, financial proformas and the larger cultural, political, social, financial and physical contexts that shape housing production in Canada. The students will be assigned a physical site within Calgary [location[s] TBD] and will be expected to familiarize themselves with local zoning by-laws applicable to the building site and to establish allowable zoning 'envelope', FAR [floor area ratio], any required setbacks. Other considerations include on-site parking, public space and amenity/landscape requirements.

The course assumes that students have the ability to work across various mediums (physical models, 3d models, drawings and other print media), an understanding of basic building systems integration (structural, mechanical, electrical, material and detail level]. The students should have an understanding of the importance of the urban context as a generative force to drive design, and architecture as building block of this context.

PROGRAM The project program consists of a mixed-use and mixed tenure housing development with some commercial/retail/community space and a strong focus on urban integration and consideration of spaces in-between. Particular program components and their respective sizes will be determined as a result of class assignments and instruction that will help the students understand relationship of land + development costs relative to program components and overall project scope of work – so called program proforma.

OUTCOMES The course will result in the production of a Housing Development proposal, similar to those required in the application of Development Permit by the City of Calgary. The proposal will include an architectural vision [concept statement, preliminary renderings], context understanding [amenities, transportation, shadow studies etc.] building programme [to be developed based on a simplified financial proforma], site plans and basic design plans. The final outcomes will be exhibited publicly at the conclusion of the course.

Course Hours: 3 units; (3-0)

Course Learning Outcomes:

Upon completion of this course, students will know and be able to:

1. Understand the issues surrounding housing production in North America
2. Understand the issues and strategies architects can directly impact in housing developments
3. Develop skills in the design and planning of multi-family housing
4. Develop basic skills in understanding financial proformas, and how to maintain architectural ambitions in the profit driven conditions surrounding Canadian housing architecture
5. Develop skills in tectonic and material understanding

Learning Resources:

Required readings, textbooks and learning materials:

5468796 Architecture. **platform:MIDDLE: Architecture for Housing the 99%** [Arquine, 2023]

Recommended readings:

Addams, Jane. ***Twenty years at Hull House***. By Jane Addams, 1860-1935. New York: The MacMillan Company, 1912, c1910.

Austen, Ben. ***High-Risers: Cabrini-Green and the Fate of American Public Housing*** (Harper Collins Publishers)

Benedikt, Michael. ***For an Architecture of Reality*** (Lumen Books, 1987)

Bowly, Devereux. ***The Poor House: Subsidized Housing in Chicago***, (Southern Illinois University Press, 1978)

Buckley, Craig. ***After the Manifesto*** (GSAPP/T6 Ediciones, Pamplona, Spain, 2015)

De Graff, Reinier, ***Four Walls and a Roof: The Complex Nature of A Simple Profession*** (Cambridge: Harvard University Press, 2017)

Geddes, Robert. ***FIT: An Architect's Manifesto*** (Princeton University Press, 2012)

Hirsch, Arnold. ***Making the Second Ghetto: Race and Housing in Chicago, 1940-1960*** (University of Chicago Press, 1998)

Hunt, D Bradford. ***Blueprint for disaster: The Unraveling of Chicago Public Housing***, (University of Chicago Press, 2009)

Parolek, Daniel. ***Missing Middle Housing: Thinking Big and Building Small to Respond to Today's Housing Crisis***, [Island Press 2020]

Rauterberg, Hanno. *Talking Architecture: Interviews with Architects* (Prestel Publishing LTD, 2008)

Salingaros, Nikos. *Unified Architectural Theory: Form, Language, Complexity* (Vajra Books, 2013)

Schneider, Friederike and Heckmann, Oliver. *Floor Plan Manual: Housing* (Birkhauser Publishing)

Soules, Matthew. *Icebergs, Zombies, and the Ultra Thin: Architecture and Capitalism in the Twenty-First Century* (New York: Princeton Architectural Press, 2021)

Venkatesh, Sudhir. *American Project: The Rise and Fall of a Modern Ghetto* (Harvard University Press)

Technology requirements (D2L etc.):

In order to successfully engage in their learning experiences students should have access to the following technology [and skillset to operate the following software]:

A personal computer with,

- drafting software [Autocad/Vectorworks etc.]
- 3D modelling software [Sketchup/Rhino/Revit etc.]
- Rendering software [V-ray/Enscape/Lumion etc.]
- Adobe Suite or equivalent [Photoshop, InDesign]
- Spreadsheet software [Excel/Numbers]

Equipment + Resources: Students are expected to have access to CAD, rendering, image editing and layout software, have access to large format printers and ability to utilize the shop on campus for physical model and mock-up building purposes. Students are expected to furnish any materials that may be required to complete the given course assignments.

Workshop Safety Training Requirement

Production of a simple context model may require the use of SAPL workshop, and students must complete all online University of Calgary safety courses, the online Trajectory safety training course, as well as in-person workshop training and a grade of pass on the final evaluation project, to be granted access to the SAPL workshop. This training is offered once a year, around the start of the Fall term and has a completion deadline.

Assessment Components:

Assessment Method	Description	Weight	Aligned Course Learning Outcome
Lectures/Seminar Participation	Depth and level of intellectual engagement	20%	1 to 5
Concept / Intention	Relevance of the work in relation to course ambitions and thematic framework; ability formulate ideas	20%	1 to 5
Comprehensiveness /Depth	Thoroughness and depth of investigation	20%	1 to 5
Process / Development	Ability to initiate, build and process ideas through making; ability to maintain productivity through design process	20%	1 to 5
Communication/ Craft	Translation of design intentions; clear and articulate communication; level of completeness; quality documentation (images, photos, drawings)	20%	1 to 5

Assessment and Evaluation Information

Attendance and Participation Expectations:

- Students are expected to attend and come prepared to meaningfully engage in all class sessions. This includes producing or preparing content necessary for discussion and contributing to individual and class-wide discussions and/or conversations/assessments with the Course Instructor.
- **Excused Absences:** In the event of an exceptional circumstance (e.g., illness, bereavement, etc.) or an exceptional opportunity (e.g., varsity athletic competition, national conference or awards ceremony, pow wow, etc.) excused absences are not to exceed 1 meeting session [i.e. morning or

afternoon]. However, any such accommodations must be approved by the Instructor with advance notice by the student.

- o **Unexcused Absences:** Attendance at all class sessions and participation in all assessments is mandatory. Unexcused absences are grounds for failure in the course.

Guidelines for Submitting Assignments:

Final Exhibition: The course will culminate to a final public presentation of the work. The students must have their work pinned up by 5pm on Friday February 16th, 2023.

Expectations for Writing (<https://www.ucalgary.ca/pubs/calendar/current/e-2.html>):

Late Assignments:

Criteria that must be met to pass: Attendance in class in mandatory, see above.

Grading Scale:

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding - evaluated by instructor
A	4.00	3.85-4.00	90-94.99	Excellent - superior performance showing comprehensive understanding of the subject matter
A-	3.70	3.50-3.84	85-89.99	Very good performance
B+	3.30	3.15-3.49	80-84.99	Good performance
B	3.00	2.85-3.14	75-79.99	Satisfactory performance
B-	2.70	2.50-2.84	70-74.99	Minimum pass for students in the Faculty of Graduate Studies
C+	2.30	2.15-2.49	65-69.99	All final grades below B- are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements.
C	2.00	1.85-2.14	60-64.99	
C-	1.70	1.50-1.84	55-59.99	
D+	1.30	1.15-1.49	50-54.99	

D	1.00	0.50-1.14	45-49.99	
F	0.00	0-0.49	0-44.99	

A student who receives a "C+" or lower in any one course will be required to withdraw regardless of their grade point average (GPA) unless the program recommends otherwise. If the program permits the student to retake a failed course, the second grade will replace the initial grade in the calculation of the GPA, and both grades will appear on the transcript

The School of Architecture, Planning and Landscape will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

<https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html>

Topic Areas & Detailed Class Schedule

Course Schedule Date	Topic	Assignments/Due Dates
Monday Feb 12	Macro Lecture + Seminar Proforma Lecture + Workshop Affordable Housing Program[s], Site Visit	Site Analysis Preliminary Proforma
Tuesday Feb 13	Micro Lecture 1 + Seminar Precedents Review Planning 101 Workshop + Basic Building Code for Housing, Production Time + Crit sessions	Planning Iterations, Preliminary Building Programme
Wednesday Feb 14	Micro Lecture 1 + Seminar Precedents Review Space In-Between Seminar Production Time + Crit sessions	Market Analysis, Final Building Programme *EVENING PUBLIC LECTURE
Thursday Feb 15	Lecture: Sustainability Considerations Technical + Material Seminar Production Time + Crit sessions	Energy Performance, Construction Strategies
Friday Feb 16	Production Time, Crit sessions	Final Submission + Exhibition

University of Calgary Policies and Supports

ACADEMIC ACCOMMODATION

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to their instructor (contact information on first page above).

SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/.

ACADEMIC MISCONDUCT

Academic Misconduct refers to student behavior which compromises proper assessment of a student's academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

For information on the Student Academic Misconduct Policy and Procedure please visit: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy>

Additional information is available on the Academic Integrity Website at <https://ucalgary.ca/student-services/student-success/learning/academic-integrity>.

COPYRIGHT LEGISLATION:

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy>) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy (<https://www.ucalgary.ca/pubs/calendar/current/k.html>).

INSTRUCTOR INTELLECTUAL PROPERTY

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

SEXUAL AND GENDER-BASED VIOLENCE POLICY

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary's sexual violence policy guides us in how we respond to incidents of sexual violence, including supports available to those who have experienced or witnessed sexual violence, or those who are alleged to have committed sexual violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at <https://www.ucalgary.ca/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy>.

UNIVERSITY STUDENT APPEALS OFFICE

If a student has a concern about a grade that they have received, they should refer to Section I of the Undergraduate Calendar (<https://www.ucalgary.ca/pubs/calendar/current/i-3.html>) which describes how to have a grade reappraised. In addition, the student should refer to the SAPL's Procedure for reappraisal of grades

OTHER IMPORTANT INFORMATION

Please visit the Registrar's website at: <https://www.ucalgary.ca/registrar/registration/course-outlines> for additional important information on the following:

- Wellness and Mental Health Resources
- Student Success
- Student Ombuds Office
- Student Union (SU) Information
- Graduate Students' Association (GSA) Information
- Emergency Evacuation/Assembly Points
- Safewalk

