

**Faculty of Environmental Design / University of Calgary**

**EVDA 782.02 - Senior Studio**

Winter 2018

Graham Livesey

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## **DOMESTICITY: MODES OF PERFORMANCE**



### **Introduction: Content and Teaching Approach**

...our house would emerge as permeated from every direction by streams of energy which run in and out of it by every imaginable route: water, gas, electricity, telephone lines, radio and television signals, and so on. Its image of immobility would be replaced by an image of a complex of mobilities, a nexus of in and out conduits....The occupants of the house perceive, receive and manipulate the energies which the house itself consumes on a massive scale...

Henri Lefebvre, *The Production of Space*

Architects design all kinds of building types, and they use various functional strategies for organizing the spaces that comprise the building program or brief. But little has been done to systematically study how humans occupy the spaces inside buildings, and to understand how buildings perform from a user's perspective. What are the patterns of behavior that should guide design, how does furniture contribute to the organization and function of a space, what are the energy flows (as Lefebvre notes above) that architecture participates in?

This studio will focus on the design of the house and furniture, and will examine a number of famous domestic designs executed during the twentieth century. These will be studied and analyzed. This analysis will form the basis of subsequent design work. Students will undertake research into the use of space, and apply this to design processes. Students will develop an individual research program during the semester. The studio will involve desk reviews, crits, workshop assignments, and field trips (see schedule).

## Objectives

- To understand principles of residential design, including planning, materials, functions, and innovation.
- To develop the design and construction of furniture.
- To understand architectural design as investigative and heuristic process.
- To develop skills in architectural representation, particularly digital media, from the sketch to presentation drawings.
- To critically define and develop an architectural concept into a detailed design.
- To develop a research program, and use it to inform design.

## Topics

Select and study one of the following topics (modes of performance analysis):

### **Turbulence and Energy Flows**

- Rahm, P., *Constructed Atmospheres*.
- Vogel, S., *Life in Moving Fluids*.

### **Spatial Syntax**

- Hillier, B., and J. Hanson, *The Social Logic of Space*.
- Hanson, J., *Decoding Homes and Houses*.

### **Pattern Language**

- Alexander, C., *A Pattern Language*.
- Alexander, C., *The Linz Café*.

### **The Furnishing of Space**

- Baudrillard, J., *The System of Objects*.
- Csikszentmihalyi, M. and E. Rochberg-Halton, *The Meaning of Things*.

### **Landscape Ecology: Patch and Boundary Dynamics**

- Richard T.T. Forman, *Landscape Mosaics*.
- Moore, C. et al, *The Place of Houses*.

### **Archaeology and Anthropology of the Home**

- Arnold, J.E., A.P. Graesch, E. Ragazzini, and E. Ochs, *Life at Home in the Twenty-First Century*.
- Chow, R., *Suburban Space: The Fabric of Dwelling*.

### **Phenomenology of the House**

- Bachelard, G., *The Poetics of Space*.
- Sharr, A., *Heidegger's Hut*.

## Schedule/Means of Evaluation

1. House Design 1 (CSH #9) - 14 Calgary Houses Walking Tour	2 weeks	15%
2. Furniture Design 1	2 weeks	15%
3. Methodology	1 week	10%
4. Case Study House Analysis	1 weeks	10%
5. Furniture Design 2	2 week	15%
6. House Design 2	3 weeks	25%
7. Final Presentation/Book	1 week	10%

## Case Study Houses

1. Frank Lloyd Wright	Ward W. Willets House, Highland Park	1902
2. Le Corbusier	Villa Cook, Paris	1926
3. Eileen Gray	E-1027 House, Roquebrune-Cap-Martin	1926-29
4. Adolf Loos	Müller House, Prague	1930
5. Pierre Chareau	Maison de Verre, Paris	1928-31
6. Hans Scharoun	Schminke House, Lobau	1930-33
7. Richard Neutra	Kaufmann House, Palm Springs	1946
8. Luis Barragan	Barragan House, Mexico City	1948
9. C. and R. Eames	Eames House, Pacific Palisades	1949
10. Alvar Aalto	Maison Carré, Bazoches-sur-Guyonne	1956-59
11. Arthur Erickson	Smith House, West Vancouver	1965
12. Carlo Scarpa	Villa Ottolenghi, Verona	1974-78
13. Tadao Ando	Koshino House, Hyogo	1979-81
14. Alvaro Siza	Two Houses, The Hague	1984-88
15. Steven Holl	Stretto House, Dallas	1989-92
16. Patkau Architects	Barnes House, Nanaimo	1993
17. MVRDV	Double House, Utrecht	1995-97
18. Shim-Sutcliffe	Integral House, Toronto	2009

## Required Reading

Livesey, G. "Towards an Ecology of the Palladian Villa," in M. Neveu and N. Djavaherian, eds. *Architecture's Appeal*. Abingdon: Routledge, 2015, pp. 228-239.

Rybczynski, W., "Domesticity," in L. Taylor, ed., *Housing: Symbol, Structure, Site*. New York, Rizzoli, 1990, pp. 24-25.

## Select Bibliography

Abalos, I., *The Good Life*.

Bryson, B., *At Home: A Short History of Private Life*.

Cieraad, I., ed., *At Home: An Anthropology of Domestic Space*.

City of Calgary, *Modest Residential Development in the Established Communities*.

Holl, S., *House: Black Swan Theory*.

Kennedy, R.W., *The House and The Art of its Design*.

Laseau, P. and J. Tice, *Frank Lloyd Wright: Between Principle and Form*.

Leonard, Annie, *The Story of Stuff*.

Marcus, Clare Cooper, *The House as Mirror of Self*.

Menzel, Peter, *Material World*.

Rybczynski, W., *Home: A Short History of an Idea*.

Wright, Frank Lloyd, *The Natural House*.

## 14 Calgary Houses Walking Tour

1. Olson Kundig	MacLennan House, 2124 Hope St. S.W.	2006
2. Clayton, Bond, Mogridge	Meyer Katchem House, 900 Prospect Ave. S.W.	1954
3. Woods Butler	Zenith House, 910 Prospect Ave. S.W.	2000
4. Gordon Atkins	Leavitt House, 920 Prospect Ave. S.W.	1969-70

5. MBAC	724 Earl Grey Cres. S.W.	2010-12
6. Bohlin Cywinski Jackson	308 Roxboro Rd. S.W.	2007-14
7. Bing Thom	930 Rideau Road S.W.	2016
8. Chomik Crittenden	3919 – 5 Street S.W.	1993-94
9. Gerald Forseth	4017 – 5 Street S.W.	1981
10. Davignon Martin	Ferrier Webb House, 4227 Britannia Lane S.W.	2010
11. Patkau Architects	629 Sifton Blvd. S.W.	1999
12. Jack Long	Graham-Brown House, 715 Sifton Blvd. S.W.	1963 (Dem.)
13. Sturgess Architecture	1016 – 39 Ave. S.W.	c. 1998
14. Housebrand	1022 – 39 Ave. S.W.	c. 1998

### CACB Student Performance Criteria

The following CACB Student Performance Criteria will be covered in this course at a primary level (other criteria will be covered at a secondary level): A2: Design Skills; A3: Design Tools; A4: Program Analysis; A7: Detail Design; A8: Design Documentation.

### 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	

#### Notes:

- 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.

**For Studio courses, include the following note:** Students are expected to complete all course assignments on time. There will be no final exam. Students must obtain an overall passing grade to pass this course, however, if a student fails any phase of the course worth 30% or more they will fail the course. A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded may request to have the paper re-graded. The student shall discuss the work with the instructor within **fifteen days** of being notified of the mark or of the item's return to the class. More information can be found in the Graduate Calendar: <http://www.ucalgary.ca/pubs/calendar/grad/current/gs-o.html>

## Notes

1. Written work, term assignments and other course related work may only be submitted by e-mail if prior permission to do so has been obtained from the course instructor. Submissions must come from an official University of Calgary (ucalgary) email account.
2. Academic Accommodations. Students who require 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 or the designated contact person in EVDS, Jennifer Taillefer ([jtaillef@ucalgary.ca](mailto:jtaillef@ucalgary.ca)). Students who require an accommodation unrelated to their coursework or the requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit [www.ucalgary.ca/access/](http://www.ucalgary.ca/access/)
3. Plagiarism - Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when:(a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),(b) parts of the work are taken from another source without reference to the original author,(c) the whole work (e.g., an essay) is copied from another source, and/or,(d) a student submits or presents work in one course which has also been submitted in another course(although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved. While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.
4. Information regarding the Freedom of Information and Protection of Privacy Act (<http://www.ucalgary.ca/secretariat/privacy>) and how this impacts the receipt and delivery of course material
5. Emergency Evacuation/Assembly Points (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
6. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
7. Contact Info for: Student Union (<https://www.su.ucalgary.ca/contact/>); Graduate Student representative(<http://www.ucalgary.ca/gsa/>) and Student Ombudsman's Office (<http://www.ucalgary.ca/ombuds/>).

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### Domesticity: Modes of Performance

#### Phase One



*The plan is a society of rooms.*

*The plan is one in which the rooms have talked to each other.*

*The plan is the structure of the spaces in their light.*

Louis I. Kahn

*The Plan is the generator.*

*Without a plan, you have lack of order, and willfulness.*

*The Plan holds in itself the essence of sensation.*

Le Corbusier

The single house is one of the primary typologies addressed by architects. It contains so many of the fundamental activities humans engage in. This studio will explore the design and analysis of house design.

This two week project involves the design of a one-storey bungalow (no basement) for a retired couple on a typical north facing Calgary lot (15.24 m (50 feet) x 36.58 m (120 feet) = 557.4 m<sup>2</sup> (6000 sq. ft.)). Respecting Calgary's R-1 bylaws design a house that encompasses the following program:

Living/Dining	42 m <sup>2</sup> (450)
Kitchen/Breakfast	18 m <sup>2</sup> (195)
Master Bedroom Suite (w/Bath and Closets)	30 m <sup>2</sup> (320)
Guest Bedroom	11 m <sup>2</sup> (120)
Library/Studio	15 m <sup>2</sup> (160)

Bathroom	6 m <sup>2</sup> (65)
Utility/Laundry	14 m <sup>2</sup> (150)
Storage	14 m <sup>2</sup> (150)
Net Area	150 m <sup>2</sup> (1915)
Gross Area	180 m <sup>2</sup> (645)

1 Car Garage/Carport  
 1 Optional Rooftop Volume – max. 15 m<sup>2</sup>  
 Basic Landscaping

Front Yard Setback	6 metres
Side Yard Setbacks	1.2 metres
Rear Yard Setback	14.6 metres
Max. Lot Coverage	45%

#### Schedule

Project Introduction	Monday, January 8, 2018
Desk Review	Tuesday, January 9
Desk Review	Friday, January 12
Pin-up Review	Tuesday, January 16
Desk Review	Friday, January 19
Final Review	Tuesday, January 23
- Plans 1:50	
- 2 Sections, 1:50	
- 1 Elevation, 1:50	
- Site Plan, 1:100	
- 1 Interior Rendering of Living/Dining Space	