



Winter 2024

Course Number	ARCH 702	Classroom	TBD
Course Name	Senior Research Studio in Architecture II Make Good and the Mythology of Repair		
Pre/Co-Requisites			
Instructor	Jessie Andjelic	Office Hours/Location	By appointment
	Email: jessie.andjelic2@ucalgary.ca	Phone: 4035897757	
Class Dates	Mandatory in-person class: Tuesdays and Fridays, 14:00 - 18:10		
Instructor Email Policy	I will respond to emails within 48 hours.		

Course Description:

Repair, by definition, works with what is already there. To repair is to prepare for the future.
>>> The Great Repair, A Catalog of Practices <<<

[In the context of contract documents] Make Good means to restore new or existing work after being damaged, cut or patched, or rejected by the Consultant: use materials identical to the original materials, with new visible surfaces matching the appearance and the expected performance of the original surfaces in all details, with no apparent junctions between the new and existing surfaces.

>>> Law Insider <<<

Traditionally, repair has been outside the scope of architecture. Architects note 'Make Good' to indicate that architecture has no place here; no cause for detail; no need for more than two words. In these locations, the outcome is up to the contractor and outside the realm of design.

This course explores the disciplinary assumptions around repair and instead posits repair as a creative and generative tool in the context of design and architecture, and a form of radical climate action.

Passed in October of 2023, Bill C-244 proposes an amendment to the Copyright Act that gives Canadians 'right to repair,' evidence of a trend happening more broadly against planned obsolescence. And while this policy is aimed at the scale of consumer goods, repair, as an action, might be a productive tool for thinking at the architectural scale as well.

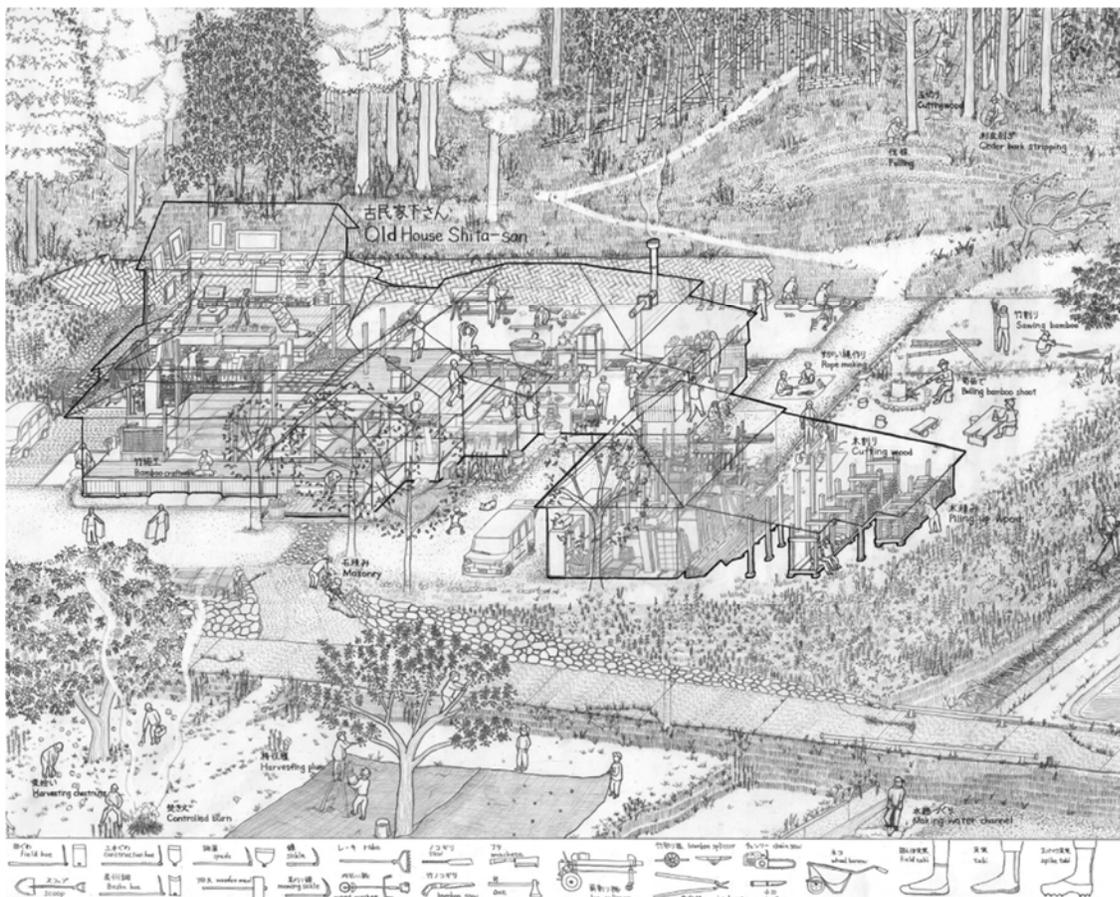
Faced with the seemingly impossible question of how we can continue to build in a climate emergency, this studio aims to engage with brokenness. It aims to position repair as a valuable cultural practice, as integral to our built future. Challenging the notion that repair is a reinstatement to an idealized previous condition, the studio will approach repair as a transformative opportunity that builds on evolutionary processes involving both structures and actors.

Design research will be conducted qualitatively and using secondary data through literature review and case studies. Students will be required to situate their research within existing bodies of work and to undertake thematic and content analysis as part of their methodology.

Calendar Description:

A research design studio in which students collaborate with design faculty in exploring projects that engage contemporary issues defining the built and natural environments.

[ARCH 702 - Senior Research Studio in Architecture II - Winter 2024 | University of Calgary Contacts \(ucalgary.ca\)](#)



Small Earth, Atelier Bow-Wow, Tsukamoto Laboratory, Tokyo Institute of Technology

Course Learning Outcomes:

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

1. Understand repair as a valuable cultural practice
2. Use design skills to address existing objects, spaces, and buildings
3. Document design research methodologies
4. Critically evaluate materials in relation to ecological and social systems

Learning Resources:

1. Repair: Sustainable Design Futures, Edited by Markus Berger and Kate Irvin, 2023
2. Radical Repair at the Triennale Milano, The World Around:
https://www.youtube.com/watch?v=UMuYVRb1_yM
3. The Great Repair, A Catalog of Practices <https://archplus.net/en/archiv/ausgabe/253/>
4. Climates: Architecture and the Planetary Imaginary, Edited by James Graham, 2016
5. Maintenance Architecture, Hilary Sample
6. Cradle to Cradle: Remaking the Way We Make Things, William McDonough, Michael Braungart
7. All We Can Save: Truth, Courage, and Solutions for the Climate Crisis, Ayana Elizabeth Johnson and Katharine K. Wilkinson, 2020

Further resources will be provided with project briefs.



Princen, Bas. Archive of Fragments (Basilica of Saint Francis of Assisi), 2023. Giotto's Fragments.

Technology requirements (D2L etc.):

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

A computer with a supported operating system, as well as the latest security, and malware updates

A current and updated web browser

Webcam (built-in or external)

Microphone and speaker (built-in or external), or headset with microphone

Current antivirus and/or firewall software enabled

Broadband internet connection

Most current laptops will have a built-in webcam, speaker and microphone

Workshop Safety Training Requirement

If a course requires the use of the SAPL workshop, 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.



On left: Keefe, Anna Rose. Hospital gown with iron-on patches, 2020. 'Why Save This?' On right: Sachdev, Sfoorti and Markus Berger. Visible Repair of Mies van der Rohe Mr10 Chair, 2018. The Repair Atelier. From Repair: Sustainable Design Futures.

Assessment Criteria

Assessment Criteria	Sub-topic	Description	Weight
Design			
	Concept	Clarity and strength of the conceptual / theoretical framework of the project, such as project theme, concept, including responsiveness and appropriateness to context and research questions.	1/6
	Coherence	Clarity and coherence of the research and design incorporating project requirements relative to project themes, into all aspects of the project. Simple, clear, edited outcomes.	1/6
	Resolution	Level of rigor in the research and design	1/6
Execution			
	Progress	Regular project progress, including bringing new content each studio meeting, ongoing iteration, testing, integration of feedback, exploration, and adjustments.	1/6
	Deliverables	Completeness and quality of deliverables. Graphic annotation, coordination, cohesion. Quality of verbal, graphic, video, and other formats of presentation.	1/6
	Professionalism	Attendance, punctuality, staying for the entire class / activity, preparedness for presentations and desk crits, professional responses to criticism, professional communications, being proactive, taking on responsibility.	1/6
Risk		Taking chances, radical and unique design, originality, making changes rather than maintaining a current trajectory.	Bonus

Attendance and Participation Expectations:

Course attendance and participation is critical to the success of students and the studio section as a group. Attendance in studio during all studio days and presentations is mandatory. During group reviews, students are expected to be present and actively listening to each other's presentations and feedback. Unexcused missed or late attendance at classes, reviews, or other activities may lead to a grade reduction in the final grade for the course by one letter grade per class or activity missed (for example, from an A+ to an A for missing one class). In the case that a student arrives late or leaves early, the instructor will use their discretion to apply an appropriate reduction in grade.

Guidelines for Submitting Assignments:

Assignments, in PDF format, should be emailed by the date and time indicated in Assignment Briefs to the instructor's email above. Assignments should be labeled 'YYMMDD-LASTNAME-FIRSTNAME-PHASE1.PDF' and should be no larger than 10 MB.

Final Studio Review:

There will be a final studio review at the end of semester, as well as interim studio reviews throughout the term. Date for the final review TBD.

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

Late Assignments:

Assignments that are submitted late will be penalized one letter grade per 24 hours (ie. work evaluated at an A that is submitted one day late will received a grade of A-). Assignments submitted late by 4 days or more may constitute automatic failure.



Henderson, Ron. Yamataka Zindai-zakura, 2000 year old cherry tree in Japan, 2012. Repair: Sustainable Design Futures, 2023.

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>

CACB Student Performance Criteria

The following CACB Student Performance Criteria will be covered in this course:

Primary level: A2: Design Skills

Secondary level: A3: Design Tools, B1: Critical Thinking and Communication, B5: Ecological Systems, C2: Materials

Class Schedule *

Phase / Assignment	Dates	Weighting
Literature Review	Jan 8 - 12	10%
Visible Repair 01	Jan 15 – Feb 2	20%
Visible Repair 02a	Feb 5 – 9 Feb 26 – March 8	20%
Visible Repair 02b	March 11 – March 28	20%
Exhibition	April 2 - 9	20%
Portfolio	TBD	10%
TOTAL		100%

* subject to change

Other Important Dates

Feb 12 – 16	Winter SAPL Block week
Feb 19	Family Day Observed
Feb 19 – 23	Winter Term Break
Mar 29	Good Friday – University closed
Apr 1	Easter Monday – University closed
Apr 15 – 19	Final Review week

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