images: Robert Frank, Los Angeles, 1956,   Ron Herron, Walking City,1964   War of the Worlds 1913. http://urbarc.wordpress.com/
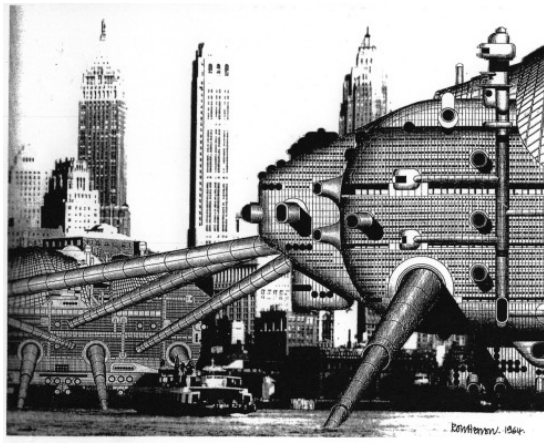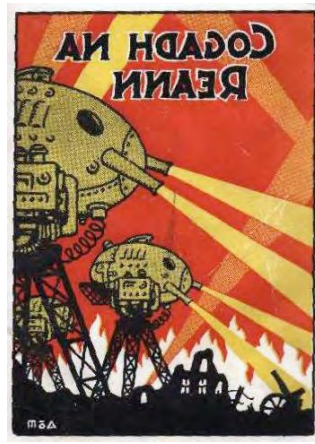
Approaches to architecture and urbanism 2021 Arch 520 course outline: Approaches to Architecture & Urbanism, F2021

Summary- The course provides a cross-disciplinary overview to approaches to architecture and urbanism.
A series of topics are introduced, and students select, and/or combine approaches, to present seminars on selected topics, using a case study method and ideally linking the subject to an emerging master of architecture thesis in question. Using the tradition of illustration to link urbanism and architecture with other drawing and depiction modes, the final submission will take form similar to a short graphic novel illustrating an array of design principles. The work of contemporary architects, designers and artists, from artist Marcel Dzama's storyboard for filmmaking, to graphic novelists using ink: Julie Doucet (Montréal), Seth (Guelph) or Chris Ware (Chicago) to designers, sometimes of illustration-influenced architecture, such as Archigram, BIG, Cedric Price, Diébédo Francis Kéré ,Neuteling (of Neutelings Riedijk), OMA, Superstudio, David Adjaye, to moving image clips or films such as Nairobi-based sci-fi short Pumzi by Wanuri Kahiu of 2009, or reference to Mayan glyphs, or Bénin bronze sculpture, introduced by historian David Olusoga. Science fiction texts by authors such as Octavia E. Butler, whose work predicts climate change issues will be introduced. Cartoon-like drawings will be considered as prototypes and precedents for the final submission.

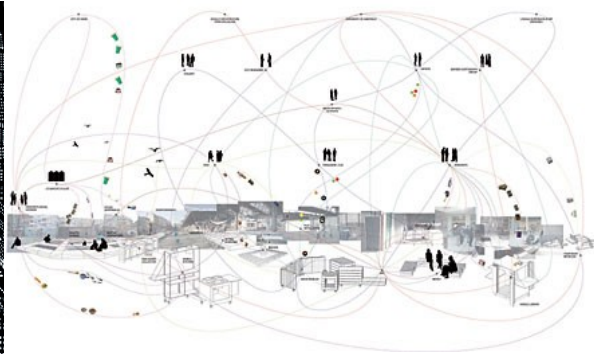List of Topics in random order (to be selected in first seminar):
1. Engineering, infrastructure and architecture: Arup, Cecil Balmond, Buro Happold, Jürgen Conzett, Robert Maillart, Pier Luigi Nervi, Frei Otto, R. Buckminster Fuller, Marcel Smets, Morden Yolles, etc.
2. Urban and rural development, housing and architecture: Luis Barragan, Peter Barber, Tony Fretton, Stephen Taylor, Hans Kollhoff, Rapp + Rapp, Andrea Deplazes, Manhattan 1920s: Rosario Candela & James Edwin Ruthven Carpenter, Brian MacKay-Lyons Sweetapple, etc.
3. Media, Branding and architecture: Herzog & deMeuron, Jun Aoki, OMA-AMO, mediaarchitecture.org
Example of collective dematerialized creation: Coca Cola Lola: http://www.youtube.com/watch?v=v3dVN1J7Sa4
4. Urbanism, Municipal Politics and socially responsible architecture: Idlfonso Cerda, Barcelona; Jaime Lerner, former mayor, Curitiba http://www.jaimelerner.com/principal/index.asp , David Adjaye, Whitechapel Ideas Store, Rivington Place Cultural Centre, Shiguru Ban, Foster and Associates http://www.fosterandpartners.com/Practice/Default.aspx , MUF, Ken Shuttleworth/Make architecture http://www.makearchitects.com/kenshuttleworth/ , Richard Rogers
5. Journalism and architecture: Rem Koolhaas, Le Corbusier, Adolf Loos, Atelier BowWow, Yoshiharu Tsukamoto - Pet architecture, Bow-wow from post-bubble city http://www.bow-wow.jp/
http://www.archinect.com/features/article.php?id=56468_0_23_0_M
6. Digital Design culture: Ian Cheng, AI Life after Bob, http://iancheng.com/BOB , Neil Leach, ed. Digital Cities,
7. Art Practices: painting, sculpture, illustration, graphic novels and architecture: BIG- Bjark Ingels, Zaha Hadid, David Hockney, Diller Scofidio Renfro, Olafur Eliasson, Brigit Riley, cartoonists Seth (Gregory Gallant), Adrian Tomine, Frank Viva, Chris Ware, Sculptors Tony Smith, C Brancusi, etc. On Site specificity: Miwon Kwon, One Place after Another, MIT Press 2002.
8. Green Architecture and urbanism, Bio-Regionalism, Food Urbanism, Ecotopia: Hassan Fathy, Francis Kéré, Indigo Architecture, William McDonough, Behnisch & Behnisch, Foster (Gherkin), Ken Yeang, Patkau Architects' Gleneagles Recreation Centre, etc.
9. Landscape, geography, Infrastructure urbanism and architecture: Patrick Geddes, Alberto Magnaghi, *The Urban Village,* Ian McHarg, James Corner-Field Operations, Weiss Manfredi- Seattle Sculpture Park, West 8, etc.
10. Monument and architecture: Mies van der Rohe, Herzog & de Meuron, Marcel Breuer, Alois Reigl, Eero Saarinen, etc.
11. Building, materiality, furniture and architecture: Pierre Chareau, Eileen Grey, Mésarchitectures, Peter Zumthor, Shim Sutcliffe, Patkau Biblithèque Nationale, Montréal, etc.
12. Urban Activism, Architecture and global change: climate, demographics, the expanding metropolis. Arjun Appaduri, Naomi Klein, Venice Biennale : Ricky Burdett, London School of Economics, Informal urbanism of Caracas, etc.
13. Conceptual Architecture and Urbanism: Cedric Price (design museum), Bernard Tschumi, Superstudio, Neutelings-Riedijk www.neutelings-riedijk.com/
14 Anthropocene issues see http://www.openhumanitiespress.org/books/titles/architecture-in-the-anthropocene/

Assignments: Seminars 40%; Attendance and Participation 10%; Design Ethos submission: 50%.
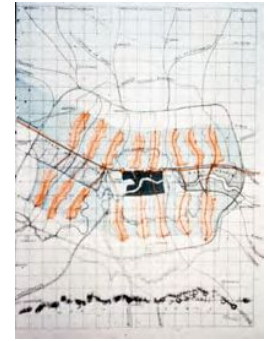End of term assignment: Undergrad students: 5 images/5 references. The use of a combination of text and images, whether photographs, digital or hand-drawn, is a significant aspect of the seminar and submission.

Images: Tony Robinson, New York Line by Line   Ecobox, Paris 2005   Hilberseimer London Abercrombie Plan 1945

approaches to architecture and urbanism 2021

End of term assignment: Graduate students: Ten points towards a Design Ethos: 10 Pictures and accompanying text for grad students: 10 images with explanatory captions indicating the direction of your thesis project to accompany the 10 references. Required: Demonstrate editing.

Possible self-directed Building Visits: suggestions Hespeler Library, Alar Kongats Architect or Perimeter Institute, Saucier + Perrotte/Teeple addition, Clay & Glass Gallery, Patkau; CIGI Waterloo, Toronto: KPMB, T. Donnelly Centre for Cellular & Biomolecular Research, Behnisch & BehnischPartners/Architects Allliance.

Optional course text: Ulrich Conrads, Programmes and Manifestoes on 20thC Architecture Cambridge: MIT Press, 1970
Manfredo Tafuri, *Architecture and Utopia. Design and Capitalist Development*. MIT Press
https://modernistarchitecture.files.wordpress.com/.../manfredo-tafuri-architecture-and

Bibliography (in-progress) - useful reference website: **monoskop.org**
Jun Aoki, Complete Works. Vol. 1,2 2004
Atelier BowWow, Pet Architecture, Post Bubble Urbanism http://www.bow-wow.jp/ &
www.archinect.com/features/article.php?id=56468_0_23_0_M
Cecil Balmond, Informal, Munich ; London Prestel 2001
http://www.0lll.com/lud/pages/architecture/archgallery/ito_serpentine/final/index.htm
Cecil Balmond, Anti-Gravity Men," David Owen, New Yorker: www.newyorker.com/online/2007/06/25/slideshow_070625_ovearup
http://www.newyorker.com/reporting/2007/06/25/070625fa_fact_owen
http://www.louisiana.dk/default.asp?contentsection=572998AF1F404EF081B3A973E7ED6D15&zcs=
Ian Cheng https://museum.stanford.edu/exhibitions/ian-cheng-emissary-sunsets-self Centre National de la bande dessinée et de l'image
http://www.cnbdi.fr/ https://www.nytimes.com/2021/08/27/arts/design/ian-cheng-shed-life-after-bob.html
Comic Book Cities: From Radiant City to Mega City One, Architects' Journal, illustrated urban spaces. 10 - Radiant City 9 - Tintin's
Inca city 8 - Metropolis 7 - Ubicand 6 - Gotham City 5 - The city in Moebius' The Long Tomorrow 4 Daredevil's New York 3 - From
Hell's London 2 - Chris Ware's Chicago 1 - Mega City One http://www.architectsjournal.co.uk/the-critics/top-10-comic-book-cities-1-
mega-city-one/5204830.article
Jurg Conzett/ Bruno Reichlin/Mohsen Mostafavi/Andreas Hagmann, *Structure as Space* Engineering and Architecture in the Works
of Jörg Conzett B. Reichlin, M. Mostafavi, J. Conzett Architectural Association Publications 2003 lecture by Conzett :
http://harvard.vo.llnwd.net/o18/gsd/10132010_Conzett.mp4
Craig Verzone and Cristina Woods, Food Urbanism Typologies, Strategies, Case Studies http://www.foodurbanism.org/la-cure-
farmkeepers/
Andrea Deplazes, *Constructing Architecture*, Birkhauser Verlag AG, Switzerland, 2008
Boris Groys, The Artist as Consumer, in Shopping: A Century of Art and Consumer Culture (Hatje Cantz, 2002), p55-60
Françoise Choay, 'De la demolition', in Les Métamorphoses parisiennes, Paris: Mardega 1996
Olafur Eliasson, 'Thinking Glacially, Acting Artfully', New York Times Sept. 2, 2007 article by Dorothy Spears
Terry Farrell, Manifesto for London, Architectural Review Sept. 2007
Hassan Fathy, Architecture for the Poor
Mark Fram, 'Ephemeral Landscapes, a project in material culture' www. chass.utoronto.ca/~mfram/Pages?indexold.htm
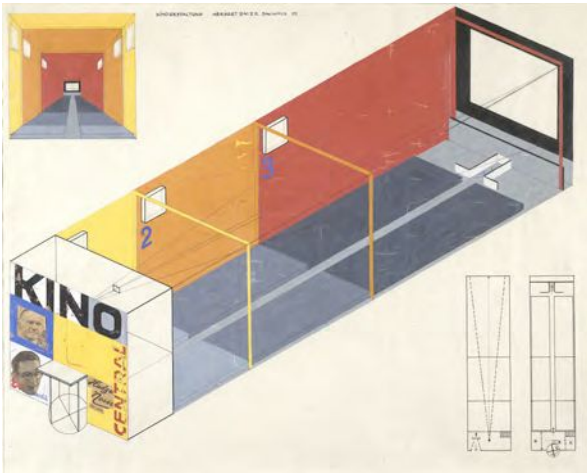Kenneth Frampton, 'The Work of Architecture in an Age of Consumption', Harvard GSD Review 2005
Hassan Fathy
Zaha Hadid Architects, Phaeno Science Centre, Wolfsburg, Germany, in The Plan 009 p 42
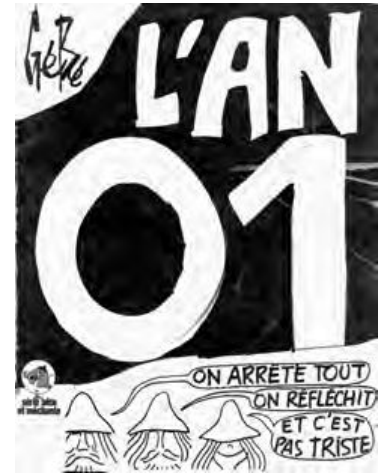
Cedric Price, Potteries Thinkbelt; OMA Alex Wall- Pleasure of Architecture La Villette1988; Ian Dingman, illustration, Thames Estuary Forts, WW2 London

Herbert Bayer, cinema 1924-5;   Roy Arden bonfire   Gébé, cartoonist, France

David Hockney, *Secret Knowledge: rediscovering the lost techniques of the Old Masters*. London: Thames & Hudson 2006
Yuk Hui, *On the Existence of Digital object*s. University of Minnesota Press 2016
Rem Koolhaas, OMA, Casa da Musica, in The Plan 010 p 26
London Future manifesto series: If I could Design London: Proposals by Alison Brooks Architects, et. al bdonline
Javier Mariscal, Chico y Rita, http://www.designmuseum.org/exhibitions/2009/mariscal
Magnaghi, Alberto, *The Urban Village: A Charter for Democracy and Local Self-sustainable Development*, Zed Books, London-NY, 2005
William McDonough, Michael Braungart, *Cradle to Cradle*. New York: North Point Press 2002, McDononch profile: Fastcom
Ian McHarg, *Design with Nature*
Detlef Mertins, *The Presence of Mies*, New York: Princeton Architectural Press 1994
Moebius http://en.wikipedia.org/wiki/Jean_Giraud
Susan Parham, *Food and Urbanism*, *The convivial city, and a sustainable future*. London: Bloomsbury 2015.
Riley, Bridget, At The End of My Pencil, London Review of Books, vol 31, no. 19, Oct. 2009 p20-21
Raymund Ryan, Saucier + Perotte Perimeter institute for Theoretical Physics, Waterloo in The Plan 009 p28
Seth, It's a Good Life, If You don't Weaken Montreal: Drawn & Quarterly 1993-2004 see www.drawnandquarterly.com
Shannon, Kelly, Marcel Smets, The landscape of Contemporary Infrastructure Rotterdam: NAI 2010
Daniel Solomon, Whatever happened to Modernism (on Coco Chanel), in Writing Urbanism, ed. Doug Kelbaugh, ACSA 2008
Barry Till, Edo: the arts ofJapan's last shogun age, Victoria: Art Gallery 2009
Riken Yamamoto, Wilhelm Klauser Basel: Birkhäuser 1999
images: Cedric Price, Potteries Thinkbelt; OMA Alex Wall The Pleasure of Architecture La Villette1988; Ian Dingman, illustration, Thames Estuary Forts, WW2 London
Tschumi, Bernard. 'Advertisements for Architecture', http://www.designboom.com/weblog/cat/9/view/23271/bernard-tschumiads-for-architecture-2012-at-venice-biennale.html accessed 18 Sept 2012.
Riken Yamamoto, Wilhelm Klauser Basel: Birkhäuser 1999

UW course required information checklist:

Territorial acknowledgement

We acknowledge that the School of Architecture is located on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. The University is situated on the Haldimand Tract, the land promised to the Six Nations that includes 10 kilometres on each side of the Grand River. (references: https://uwaterloo.ca/engineering/about/territorial-acknowledgement)

Course number: 540 title Approaches to Architecture & Urbanism Term and year: Fall 2021
Class days, times, building, room no. Wednesday 9:30 pm -remote
Class instructor name, office, contact information, office hours M-P Macdonald, 3004 mpmacdon@uwaterloo.ca, appointment
Teaching assistant name, office, contact information, office, hour (if applicable): None
Course description: see above
Course objectives: understanding of a range of approaches to and links interconnecting architecture, urbanism, infrastructure and landscape design and moving images and graphics.
Required text and/or readings: Choay, Françoise, Riley, Bridget and other readings, see above.
General overview of topic covered: Contemporary architecture, Contemporary urbanism, contemporary landscape, engineering and infrastructure design, contemporary illustration and graphic novel, contemporary moving image, and their inter-relations.
Evaluation structure for the course including course requirements, deadlines, weight of Requirements toward the final course grade: seminar and Design Ethos submission.
Acceptable rules for group work: not applicable to this course except with permission.
Indication of how late submission of assignments and missed assignments will be treated: No late assignments.
Indication of where students submit assignments and pick up marked assignments: UW Learn
Any other element required by the program/department/faculty: one
Institutional required statements – Required statements that have to be published
With regard to academic integrity, listed below:
The following statements MUST be included in all course outlines and/or websites:
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!www.uwaterloo.ca/academicintegrity/ for more information.] Grievance: A student who believes that a decision affecting some aspect of her/his university Life has been unfair Or

Late Penalty: No extensions will be given on presentations scheduled in class, and students who fail to present will be given a grade of 0%. Students who hand in their paper late may be penalized. There will be a penalty for papers handed in after the deadline. An additional penalty per day may be deducted for each calendar day after the deadline. Papers submitted after term end will be given a grade of 0%.

Additional Links

Contemporary architecture history
https://gahtc.org/

coronavirus
BBC Visual and Data Journalism Team, This is what coronavirus will do to our offices and homes, 6 August 2020
https://www.bbc.com/news/resources/idt-dc2d6e2d-3ab4-42de-8d03-bb7eda5fff8e

Science fiction
Pumzi Director Wanuri Kahiu. Nairobi. 2010. With Kudzani Moswela, Tammy Richards, Nicole Baily. 22 min.
https://vimeo.com/46891859 https://vimeo.com/46891859

Civilizations
David Olusoga Bénin Bronzes 4 min. https://www.youtube.com/watch?v=rp8fICwvoAU
https://www.youtube.com/watch?v=rp8fICwvoAU
19th c https://www.dailymotion.com/video/x75iy99
David Olusoga, Bénin Bronzes 16th century Simon Schama
https://www.facebook.com/bbc/videos/2018-04-09-david-olusoga:-my-civilisations/2487939168097889/
Dr Gus Casely-Hayford, Cultural Historian, Lost Kingdoms of Africa, Lost Kingdoms of Africa 4 of 4, West Africa 48 min. Mali 5 min Dogon **30** min metal https://www.youtube.com/watch?v=QW_kaUuUg8
Art historian Gus Casely-Hayford explores the history of the Lost Kingdoms of West Africa, with particular attention to the 16th-century bronzes from the kingdom of Benin.
https://africawrites.org/blog/dr-gus-casely-hayford-cultural-historian-kobina-seyki-and-my-own-grandfather-joseph-ephraim-casely-hayford-were-unafraid-to-be-daring-and-innovative-their-work-demonstrates-a-complete-und/

Mayan National Geographic https://www.youtube.com/watch?v=Q6eBJjdca14
With their impressive city structures and advanced astronomical understanding, the Maya civilization once dominated Mesoamerica. Learn about the Maya's influence in mathematics, how their cosmic calendars advised agricultural matters, and how the legacy of this ancient civilization endures through Maya people today.

Housing and urbanisation
Hassan Fathy's New Gourna, dir. Oliver Wilkins, 2010, WMF, https://vimeo.com/15514401
architect Hassan Fathy 1978, in French: https://www.youtube.com/watch?v=J6xPJl4jGw4
https://eartharchitecture.org/?cat=40
Zan Boko, director Gaston Kaboré, Burkina Faso. 1988. 122 min.
Available : https://uwaterloo.kanopy.com/video/zan-boko-homeland
Set in Ouagadougou, the film Zan Boko (Homeland) explores the conflict between tradition and modernity, a central theme in many contemporary African films, such as Keita and Ta Dona. It tells the story of a village family swept away in the current tide of urbanization. In doing so, Zan Boko expertly reveals the transformation of an agrarian, subsistence society into an industrialized commodity economy. Zan Boko is also one of the first African films to explore the impact of

the mass media in changing an oral society into one where information is packaged and sold. The film provides viewers with a unique opportunity to see our own televised civilization through the eyes of the traditional societies it is replacing. https://harvardfilmarchive.org/calendar/madame-hado-zan-boko-2002-10

In the Mossi culture, one of the rites attending the birth of a child and its induction as a new member of the community involves the burial of the placenta. This act consecrates the first link between the newborn and the nurturing earth, dwelling place of ancestors and spirits that protect the family and social group. The space in which the placenta is buried is called "Zan Boko"—a phrase that connotes the religious, cultural, and affective relations that bind the child to the land and that embraces the notions of "rootedness" and "belonging." Kaboré tells the poignant story of Tinga, who resists the encroaching urbanization of his native territory.

Jake Blumgart, Housing Is Shamefully Segregated. Who Segregated It? *Slate* https://slate.com/business/2017/06/an-interview-with-richard-rothstein-on-the-color-of-law.html

brutalism
Jonathan Meades :: Bunkers Brutalism and Bloodymindedness Concrete Poetry – One https://vimeo.com/93963469
brutalism and the sublime Jonathan Meades :: Bunkers Brutalism and Bloodymindedness Concrete Poetry – Two https://vimeo.com/93116236

regionalism
Indigo Architects Ajrakh Studio, Kutch, India https://indigo-architects.com/project/ajrakh_studio/
Candida Richardson Architecture Re-Imagined - Diébédo Francis Kéré, made for Royal Academy Sensing Spaces exhibition, 2014 8 min. trailer. https://vimeo.com/108768560
Brian MacKay Lyons Sweetapple https://architizer.com/projects/horizon-neighbourhood/?utm_campaign=trueanthem&utm_medium=trueanthem&utm_source=facebook&fbclid=IwAR2rb3brTqEAKzkP5rhUnbbSuNnaxvDkN_qJ0y7c1RS-hSmEphqulUvNRwk

medical research and drawing
Santiago Ramón y Cajal https://www.newscientist.com/article/mg23331090-100-early-sketches-of-the-brain-show-ramn-y-cajals-artistic-genius/

activism
Claire Voon, Crisis and Community: How Chicago's Rebuild Foundation Is Closing the Gap Between Art Spaces and the People They Serve 30 July 20. https://www.artnews.com/art-news/news/rebuild-foundation-covid-19-theaster-gates-1202695697/
W.E.B. Du Bois' Visionary Infographics Come Together for the First Time in Full Color https://www.smithsonianmag.com/history/first-time-together-and-color-book-displays-web-du-bois-visionary-infographics-180970826/
Basquiat, Jean-Michel, set of Downtown 81, 1980-1. Edo Bertoglio (Swiss,b1951). 35 mm slide. Basquiat: The Unknown Notebooks, Brooklyn Museum, guest curator Dieter Buchhart with Tricia Laughlin Bloom, former associate curator exhibitions Brooklyn Museum
https://www.clevelandart.org/exhibitions/downtown-81-outtakes

abstraction
Conversation | Stanley Whitney and Ben Okri https://www.lissongallery.com/spotlight
https://www.lafayetteanticipations.com/en/exposition/lifetime

urbanism, Paris
POURQUOI HAUSSMANN par Françoise Choay https://vimeo.com/328801564

Art 21 Recommended: urbanist s- artists Theaster Gates, LaToya Ruby Frazier, El Anatsui
https://art21.org/artist/theaster-gates/
https://art21.org/artist/latoya-ruby-frazier/
https://art21.org/artist/el-anatsui/

TVO documentaries-
Recommended: artists Mark Bradford, Bharti Kher, Jaime Plensa
https://www.tvo.org/programs/brilliant-ideas
Landscape and gardens
Monty Don Artistic garden ep 3 19 min., Patrick Blanc atelier https://www.tvo.org/video/documentaries/ep-3-the-artistic-garden   [tvo Aug 30, 2020]
Artistic Garden 36 m Patrick Blanc Atelier
https://www.youtube.com/watch?v=s4DIapJ4cu4

les murs végétaux selon Patrick Blanc https://www.youtube.com/watch?v=rNDrYSns7gM&list=PL85QFEnf3cy-u5PuSpEiZLpefvEGmbUgf&index=2&t=0s
Patrick Blanc, Vertical Garden interview in Paris 7m
https://www.youtube.com/watch?v=63D2UkkTtBQ&list=PL85QFEnf3cy-u5PuSpEiZLpefvEGmbUgf&index=6
patrick blanc atelier Intégrale du 16/04/2017 - Thé ou Café 26-9 min
https://www.youtube.com/watch?v=ivZMq6xVb4w

Patrick Blanc 32,Paris paysagiste Suresnes né 1953 Issy-les-Moulineaux
L'oasis d'Aboukir, rue d'Aboukir et rue des Petits Carreaux, 2e – M° Sentier

Toronto Power Plant lectures:
Hong Kong is a loaded term: Megacities, Temporary Cities, Future Cities panel- Howie Tsui, Dawn Chan, Aihwa Ong, Godfre Leung and Christopher K. Ho
https://www.thepowerplant.org/ProgramsEvents/Programs/Other-Programs/Hong-Kong-Is-a-Loaded-Term–Megacities,-Temporary-.aspx
https://thepowerplant.org/SwitchOn/Video-Room.aspx

https://www.foreground.com.au/agriculture-environment/urban-burial-cemetery-landscapes/
https://www.tvo.org/programs/monty-dons-paradise-gardens

Japanese designers
Masters of Modern Design: The Art of the Japanese American Experience, director Akira Boch
Artists Ruth Asawa and Isamu Noguchi, art director S. Neil Fujita, furniture designer and woodworker George Nakashima and architect Gyo Obata [Noguchi Intern 14 min.]
https://www.youtube.com/watch?v=CpfhVmDNuho
https://www.kcet.org/shows/artbound
Japanese designer Oki Sato on his playful approach to design | Braun | British GQ • 21 Mar 2019
https://www.youtube.com/watch?v=c3TPbj2_Xjg&t=6s
Raymond Moriyama TVO bio pic, Magical Imperfection: The Life and Architecture of Moriyama
https://www.tvo.org/video/documentaries/magical-imperfection-the-life-and-architecture-of-moriyama
Astra Taylor https://www.tvo.org/video/documentaries/what-is-democracy
https://www.tvo.org/video/documentaries/citizen-jane-battle-for-the-city
http://www.rafu.com/2020/07/masters-of-modern-design-the-art-of-the-japanese-american-experience-wins-l-a-area-emmy/
https://www.tvo.org/video/documentaries/ai-weiwei-never-sorry
https://www.tvo.org/video/documentaries/be-natural-the-untold-story-of-alice-guy-blach
Dictators Playbook : Mussolini - Radio and Propaganda
Ep. 3 - Benito Mussolini Ep. 4 - Francisco Franco Ep. 5 - Manuel Noriega
https://www.tvo.org/programs/the-dictators-playbook

Territorial Acknowledgement:
We acknowledge that the School of Architecture is located on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. The University is situated on the Haldimand Tract, the land promised to the Six Nations that includes 10 kilometres on each side of the Grand River.
(https://uwaterloo.ca/engineering/about/territorial-acknowledgement)

FALL 2021 – ARCH COURSE OUTLINE TEMPLATE
Course Information
Course title Arch 540 Approaches to Architecture and Urbanism
Course Description
The course provides a cross-disciplinary overview to approaches to architecture and urbanism. A series of topics are introduced, and students select, and/or combine approaches, to present seminars on selected topics, using a case study method and ideally linking the subject to an emerging master of architecture thesis in question. Reference to traditions such as illustration, serial comics and mass-printing methods help to link urbanism and architecture with other drawing and depiction modes and dissemination of information. The final submission will take form similar to a short graphic novel illustrating an array of design principles. The work of contemporary architects, designers and artists, ranges from Canadian artists such as Seth or Marcel Dzama's storyboards for filmmaking, to graphic novelists using ink such as Julie Doucet of Montréal, Chicago-based Chris Ware, NY-based Raymond Pettibon; to designers, sometimes of illustration-influenced architecture, such as Archigram, BIG, Cedric Price, Neuteling (of Neutelings Riedijk) OMA, Superstudio, David Adjaye, to moving image clips or films such as Nairobi- based sci-fi short Pumzi by Wanuri Kahiu of 2009, or reference to Mayan glyphs, or Benin bronze sculpture, introduced by historian David Olusoga. Science fiction texts by authors such

as Octavia E. Butler whose work predicts climate change issues will be introduced. Cartoon-style drawing and storyboard will be referenced as prototype and precedent for the final submission.

Learning Objectives
By the end of the course, students will be able to –or- you'll walk away with:
Understand how to differentiate between architecture and urbanism, as well as recognize similarities.
Gain knowledge of how innovations in landscape, technology, design, planning, and policy can improve to urban living – at a local and global level.
Understand the interactions of major events in particular, climate change, with other kinds of influences such as the pandemic, nuclear accidents or disruptive technologies such as automation, artificial intelligence (AI), and the Internet of Things (IoT) in the context of city planning.

Required Texts
See pp 3-4 and UW Learn

Course Requirements and Assessment
See pp 3-4

Topics & Schedule
Afrofuturism Sept. 2021.   Includes: <insert text here>
David Olusoga Bénin Bronzes 4 min. https://www.youtube.com/watch?v=rp8flCwvoAU
https://www.youtube.com/watch?v=rp8flCwvoAU
Dr Gus Casely-Hayford, Cultural Historian, Lost Kingdoms of Africa, Lost Kingdoms of Africa 4 of 4, West Africa 48 min. Mali 5 min Dogon 30 min metal https://www.youtube.com/watch?v=QW_kaUuUg8Y
defunct https://www.youtube.com/watch?v=QW_kaUuUg8
related on Edo Museum of West African Art: David Adjaye Releases Plans For Benin's Edo Museum of West African Art, Antonis Chaliakopoulos, The Collector 2020 Nov 13. https://www.com/david-adjaye-benin-emowaa/
Pumzi Director Wanuri Kahiu. Nairobi. 2010 20 min. https://vimeo.com/46891859
https://vimeo.com/46891859
Sun Ra - Space is the place. 1974 1h 20 min. https://www.youtube.com/watch?v=7iAQCPmpSUI
defunct - https://www.youtube.com/watch?v=bCalqwsicls
Toni Morrison

Remote Course Delivery Platforms & Communication
During blended/remote learning, 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:
UW Learn, MS Teams, Miro, Zoom, Skype, Google meet, possibly Cisco Webex,

In-Person Activities Planning If course activities are impacted by a change in restrictions to in-person activities, such as changes in room occupancy limits, the instructor will communicate updated in-person activity plans. These plans may alter student plans for in-person activities.

Course Time Zone EST All dates and times communicated in the document are expressed in Eastern Time (Local time in Waterloo Ontario, Canada). Eastern Standard Time (EST, UTC—5:00) applies November to March and Eastern Daylight Time (EDT, UTC—4:00) from March to November.

Fall 2021 COVID-19 Special Statement Given the continuously evolving situation around COVID-19, students are to refer to the University of Waterloo's developing information resource page (https://uwaterloo.ca/coronavirus/) for up-to-date information on academic updates, health services, important dates, co-op, accommodation rules and other university level responses to COVID-19.

Student Notice of Recording The course's official *Notice of Recording* document is found on the course LEARN site. This document outlines shared responsibilities for instructors and students around issues of privacy and security. Each student is responsible for reviewing this document.

 Late Work   Late Work may be subject to penalties. 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 Undergraduate Student Services Co-Ordinator 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).

Passing Grade 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.

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.

Equity, Diversity and Inclusion Commitment
At the School of Architecture, we are committed to foster and support equity, diversity and inclusion. We recognize however, that discrimination does occur, sometimes through an isolated act, but also through practices and policies that must be changed. If you experience discrimination, micro-aggression, or other forms of racism, sexism, discrimination against LGBTQ2S+, or disability, there are different pathways to report them:

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 undergraduate the [Undergraduate office](), [Graduate office](), or Director ([Anne Bordeleau]()). If you contact any of these people in confidence, they are bound to preserve your anonymity and follow up on your report.

C) You may also 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) [Racial Advocacy for Inclusion, Solidarity and Equity (RAISE)]() 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]().

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 his/her 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 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 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, 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.

Course outline requirement additions:

course outline for in-person class alternate arrangement plans: Revert to remote using MS Teams for:

-a short-term (e.g., one-week) cancellation of in-person classes, whether for the particular course or University-wide;

-a longer-term cancellation of in-person meetings, whether for the particular course or University-wide;

-cancellation of in-person (midterm or final) reviews.

-accommodation that will be available for students who cannot attend classes due to self-isolation: Remote using MS Teams.

As per: every course outline for an in-person class should be designed with a plan that considers alternate arrangements for:

-a short-term (e.g., one-week) cancellation of in-person classes, whether for the particular course or University-wide;

-a longer-term cancellation of in-person meetings, whether for the particular course or University-wide;

-cancellation of in-person (midterm or final) examinations.

Include as much detail as possible in the plan to make students aware of possible scenarios. Where there are program, department, or faculty-wide contingency plans in place, ensure that your course plans are consistent with them.

-outlines should also describe accommodation that will be available for students who cannot attend classes due to self-isolation.