

# ***Cross Border Lab:*** **Reframing the Urban Edge** **– ZHUHAI X MACAU**

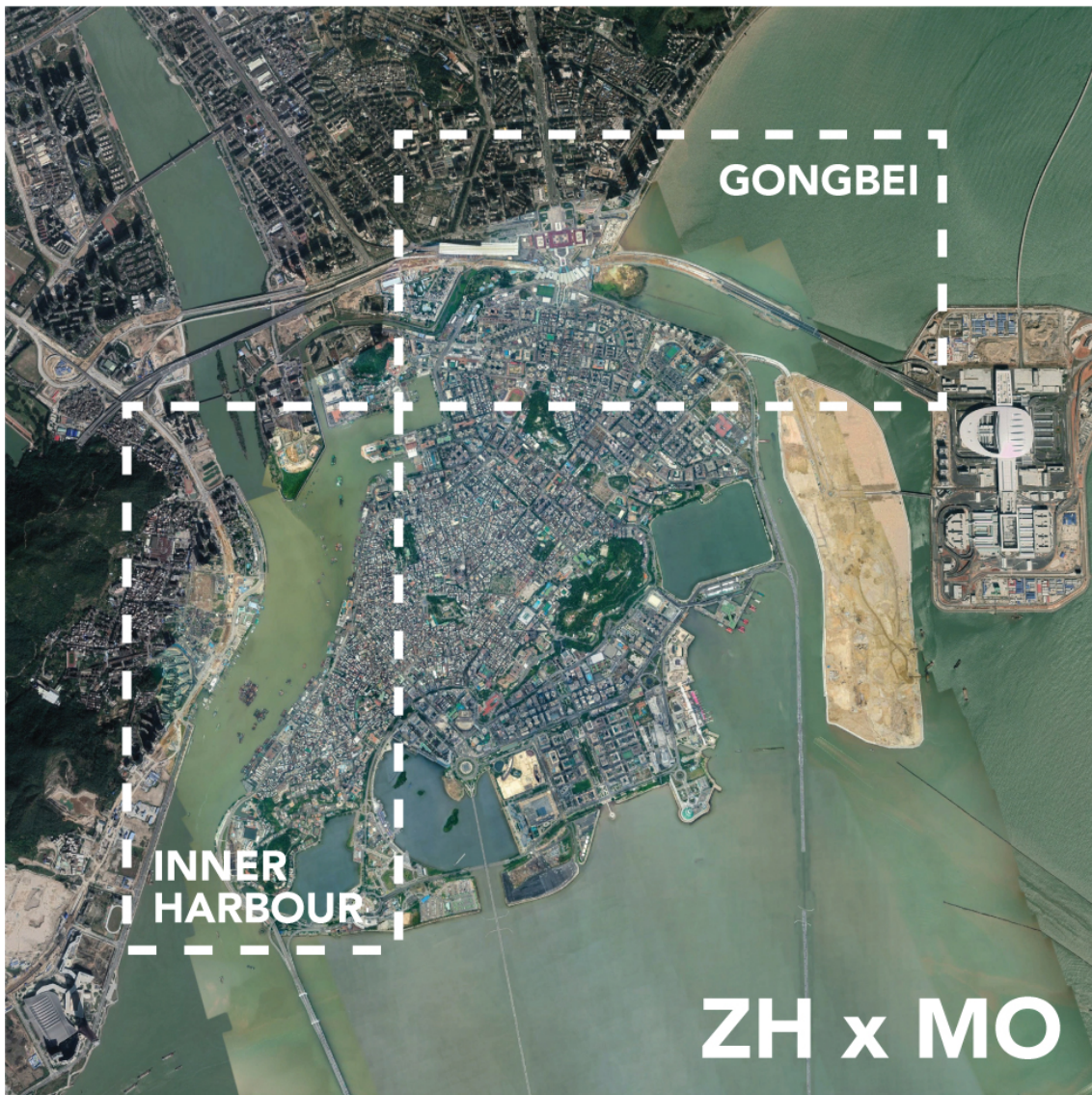
2018-19 2<sup>nd</sup> Term,

Mondays & Thursdays 1:30pm – 6.15pm | Venue: Urban Design Studio 5th Floor AIT Building

Instructors: Adjunct Assistant Professor Darren Snow

Adjunct Assistant Professor Nuno Soares

Workshop Inputs: Adjunct Associate Professor Daniel Pätzold



## **STUDIO BACKGROUND AND GOALS AND APPROACH**

Building on the investigation of infrastructure and public space in the first Studio, the second Studio expands in scope to the Pearl River Bay Area. This presents an opportunity to examine the interface between regional infrastructure and local placemaking initiatives. It is a place of complex border relationships, diverse local identities, and intense urban development.

Border areas present an intensified territory for urban design. They are interfaces between cultures and expressions of identity. The border between Zhuhai and Macau provides a case as an urban border that is not the manifestation of a divided city but rather two distinct cities. Under the theme of Cross-Border Lab, the studio will use the Zhuhai / Macau border as a territory to explore the urban potential of the interface between these cities, reframing the urban edge as a place of intensified urban experience and quality of life.

The studio will begin with a study of the territory in its current condition and context and propose of a series of innovative urban interventions for its future development. Students will have the opportunity to focus on one of three areas: old town integration, infrastructural urbanism, new town design. Case sites will be selected along the border to address issues ranging from blue and green infrastructure, inclusive public space and livability, to urban infrastructure design and urban regeneration.

The studio will collaborate with leading Chinese urban design and planning schools through the semester as part of wider research and design project relating to the border areas. The studio will have the support and collaboration of Macau-based CURB Center for Architecture and Urbanism.

We will kick off with a series of workshops and design charrettes. The first workshop in Macau will engage with local professionals and stakeholders to better understand the cultural and architectural context of the border area. The second workshop will engage with experts in transit and infrastructural urban design to better understand the potential for a radical redesign of the border architecture. A final cross-border workshop and charrette will link up with partner institutions to develop and debate a comprehensive set of potentials for the site.

The studio will employ processes of urban analysis and scenario building that are informed by placemaking values and community participation. Students will be empowered to reconsider the urban morphology and relationship of these two cities to create a comprehensive response to the territory.



## **GONGBEI / BORDER GATE**

When the Portuguese established their first settlements under the Ming Dynasty, Macau was an island connected back to the mainland by a narrow tombolo passing through this site. The past centuries have transformed that sandy link into complex infrastructural connection between two morphologically distinct cities.

Today, the connectivity of the site is intensifying at a regional scale with the development of the Hong Kong Zhuhai Macau Bridge, and the Gongbei Railway station. New reclamations to the east are a rare opportunity to expand the core of Macau. Political and technological changes are making the current form and function of the border crossing outdated.

This studio will give students the opportunity to engage with this rich cultural and infrastructural place and make radical proposals for what it could be.



# INNER HARBOUR



## **INNER HARBOUR**

The Inner Harbor was the bustling center of Macau for centuries, a place of trade and the main entrance to the city by boat. From the seventies onwards, the Inner harbor lost its importance and was left unattended.

Over time the lack of planning lead to a series of problems: heavy traffic from the new bridge, heavy duty port activities, architectural decay, struggling local commerce, blocked waterfront... It reached a culmination with the heavy flood during the Hato typhoon, whose drastic impact made a new plan for the Inner Harbour unavoidable.

Rushing to solve the flooding problem, quick fixes and heavy plans are being considered, from a 4,5 meter seawall to a dike system, which will have a dramatic impact on the Inner Harbour. This studio will take this circumstance as an opportunity to envision a new holistic future for both sides of the Inner Harbor, as vibrant and sustainable districts where the interaction between the city, its citizens and the waterfront takes central stage.

## **OBJECTIVES OF THE DESIGN STUDIO**

- To create a contextual and vibrant urban design, with focus on increasing living quality, social interaction and economic vitality;
- To create a Conceptual Plan and study schemes indicating, land use with program layout;
- To identify and understand how existing urban areas at Gongbei and Inner Harbour have emerged and are currently transforming;
- To develop strategies to improve and enhance the neighbourhood's economic vitality and sustainability;
- To explore new opportunities for integrated infrastructure planning to guide the development of more cost-effective and resilient green infrastructure investments over time;
- To create a comprehensive urban design strategy to integrate the new development into the existing context;

## **STUDENT LEARNING OUTCOME**

Upon completing the studio, students will be able to:

- Understand how to organize a sustainable development strategy for Gongbei and Inner Harbour, that will integrate economic, social and environmental perspectives;
- Understand, map and interpret the urban morphology of an important part of Zhuhai and Macau;
- Understand the complex relationships between enhancing urban mobility and environmental, economic and social sustainability;
- Learn from key examples of Urban Design;
- Create a comprehensive urban design strategy by learning to work in different scales in the fields of architecture, urban design and city planning;
- Understand and address contemporary urban issues with focus on development of advanced urban design, presentation and communication skills while addressing key issues and developing context sensitive strategies and designs
- Determine priorities and strategies to create an urban ecosystem;

## **ASSESSMENT SCHEME**

- Group Research 20%
- Overall Group Strategy 20%
- Individual Design Work 50%
- Participation 10%

## COURSE FORMAT

- Studio Work
- Field trip to Macau
- Infrastructure + Urbanism Workshop
- Macau + Zhuhai Placemaking workshop
- Cross Border Scenario Building workshop

## FIELD TRIP

- Weekend trip Macau / Zhuhai x 2
- Weekday trip to Guangzhou / Shenzhen for joint review x2

## REQUIRED READINGS

Alex Lehnerer, **Grand Urban rules** (Rotterdam: 010 Publishers, 2009)  
Jan Gehl, **Life Between Buildings: using public space** (Van Nostrand Reinhold New York, 1987)  
Jan Gehl, **Cities for People** (Island Press, 2010)  
Shane, David Grahame, **Urban Design Since 1945: A Global Perspective** (Wiley, 2011)  
Shelton, Barrie, Karakiewicz, Justyna & Kvan, Thomas, **The Making of Hong Kong: From Vertical to Volumetric** (Taylor & Francis, 2010)  
Diener, A., Hagen, J., ProQuest, & ProQuest CSA. **Borders : A very short introduction** (Very short introductions ; 328). (New York: Oxford University Press, 2012).

## RECOMMENDED READINGS

### Urban visions and experimental massing

WORKac, **49 CITIES** (New York: Storefront for Art and Architecture, 2009)  
Stan Allen and Marc Macquade, **Landform Building** (Lars Muller Publisher, 2011)  
R. Klanten and L. Feireiss, **Utopia Forever: Vision of Architecture and Urbanism** (Gestalten, 2011)  
Winy Maas, **Visionary Cities** (Rotterdam: NAI Publishers, 2010)  
Winy Maas, **Hong Kong Fantasies** (Rotterdam: NAI Publishers, 2012)  
Aurora Fernández and Javier Arpa, **Density Projects** (Vitoria-Gasteiz: a+t ediciones, 2008)

### Site and situation

Frédéric Edelmann, **In the Chinese City**. Perspectives on the Transformation of an Empire (Barcelona: Actar 2008)  
Johannes Widodo, **The Boat and the City: Chinese Diaspora and the Architecture of Southeast Asian Coastal Cities** (Singapore: Marshall Cavendish Academic, 2004)  
Filipe Jorge and Francisco Figueira, **Macau From the Sky** (Lisbon: Argumentum, 1999)  
Victor Sit, **Macau through 500 years: Emergence and Development of an Untypical Chinese City** (Hong Kong: Enrich Professional Publishing, 2012)

Wang Weijen and Cheong Cheok Kio, ***Study of Macao's Historical Urban Fabric: Regenerating Pátio*** (Macao: Cultural Heritage Department, 2010)

Lee, K. (2014). **Transforming Macau: Planning as institutionalized informality and the spatial dynamics of hypercompetition**. *Environment and Planning A*, 46(11), 2622-2637.

Cecilia, L. (2015). **Spectacular Macau: Visioning futures for a World Heritage City**. *Geoforum*, 65, 440-450.

Nuno Soares (ed.) (2014) **The Inner Harbour - Background Document on the Revitalization of Macau's Vernacular Heritage**, Center for Architecture and Urbanism, Macau

Nuno Soares (ed.) (2014) **The Inner Harbour – Policy Recommendations on the Revitalization of Macau's Vernacular Heritage**, Center for Architecture and Urbanism, Macau

Sheng, N., Tang, U., & Grydehoj, A. (2017). **Urban morphology and urban fragmentation in Macau, China: Island city development in the Pearl River Delta megacity region**. *Island Studies Journal*, 12(2), 199-212.

DSSOPT (2015) **Plano Director dos Novos Aterros - 3ª fase de auscultação pública**, [http://www.dssopt.gov.mo/uploads/media/20160630/consult\\_pt.pdf](http://www.dssopt.gov.mo/uploads/media/20160630/consult_pt.pdf)

DSSOPT (2011) **Anteprojecto do Plano das Novas Zonas Urbanas - 2ª fase de auscultação pública**, retrieved [http://urbanplanning.dssopt.gov.mo/pt/download/2nd\\_consultation.pdf](http://urbanplanning.dssopt.gov.mo/pt/download/2nd_consultation.pdf)

#### City and citizens

Anne Mikoleit and Moritz Purckhauer, ***Urban code: 100 Lessons for Understanding the City*** (Cambridge, MIT Press 2011)

Kevin Lynch, ***The Image of the City*** (Cambridge, MIT Press, 1960)

Gordon Cullen, ***The Concise Townscape*** (Oxford: Architectural Press, 1996)

Magda Anglès, ***In Favor of Public Space***. Ten years of the European Prize for Urban Public Space (Barcelona: Actar, 2010)

Aurora Fernández Per and Javier Arpa, ***The Public Chance: New urban landscapes*** (Vitoria-Gasteiz: a+t ediciones, 2008)

#### Sustainability

Albert Ferré, ***Total Housing: Alternatives to Urban Sprawl*** (Barcelona: Actar, 2010)

Mohsen Mostafavi and Gareth Doherty, ***Ecological Urbanism*** (Baden: Lars Muller Publishers, 2010)

Mason White, Maya Przybylski, ***On Farming: Bracket 1*** (Barcelona: Actar, 2010)

Bolchover, J., & Hasdell, P. (2017). ***Border ecologies : Hong Kong's mainland frontier***.

## **SCHEDULE**

(Will be handed in the first day of class)

## **FIELD TRIP**

(please check the boxes)

[v] Yes  [ ] Local; [v] Overseas  Date(s): TBC Destination(s): Macau/Zhuhai

**SAME COURSE OFFERED BEFORE** (please check the boxes)

Yes  Offer year [2017]  Term [ II ]  Course code [ URBD 5720]

No

**ACADEMIC HONESTY AND PLAGIARISM**

Attention is drawn to University policy and regulations on honesty in academic work, and to the disciplinary guidelines and procedures applicable to breaches of such policy and regulations. Details may be found at <http://www.cuhk.edu.hk/policy/academichonesty/> .

With each assignment, students will be required to submit a signed declaration that they are aware of these policies, regulations, guidelines and procedures. For group projects, all students of the same group should be asked to sign on the declaration.

Students are required to submit a softcopy of the assignment to the VeriGuide system at: <https://veriguide2.cse.cuhk.edu.hk/cuhk/>.

After submission, student should receive a receipt and an academic honesty declaration statement via an e-mail from VeriGuide. Please print the receipt and the declaration statement (below) and submit them to the lecturer together with a hardcopy of the assignment.

I declare that the assignment here submitted is original except for source material explicitly acknowledged. I also acknowledge that I am aware of University policy and regulations on honesty in academic work, and of the disciplinary guidelines and procedures applicable to breaches of such policy and regulations, as contained in the website <http://www.cuhk.edu.hk/policy/academichonesty/>

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