

# 建築計畫書與設計準則

## Architectural Programming and Design Guidelines

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上課時間：星期一 ABC

上課地點：工綜館 R313

### 課程概述：

外型如嵌入大地之礁石般的蘭陽博物館到底是不是一棟好建築？Zaha Hadid 近來爲什麼這麼有名？建築設計世界似乎充滿許多不由分說、也說不清楚的美學與品味。建築設計是否真的難以分析？成功的建築設計實來自良好的建築計畫。建築計畫是在定義一項或多項可經由空間設計來解決之問題，本課程即在教導學生定義這種多面向問題之能力，將建物所在實質與社會環境，視爲與內部空間功能需求同等重要，進而決定建築應傳達之意象，及所需承載之社會、文化功能與活動類型，成就真正美好的形式與象徵。

### 課程目標：

- 建立正確之建築專業態度，認識設計準則與使用後評估的重要。
- 學習建築計畫的調查方法，以了解設計目標、背景、使用者與基地。
- 將蒐集之資訊化爲可進入設計階段之資料，進而制定設計準則。
- 了解使用後評估方法及意義，以便評鑑空間使用者的觀感、經驗與滿意度，以作爲改建或空間效能改善時之操作基礎。

### 課程要求：

- 教師講授每周主題前，學生需閱讀各單元指定讀物（詳課程進度）並於課堂參與討論。
- 所有修課同學需組成小組，隨著課程進度，階段式地制訂一套建築設計準則（題目另訂），並在課堂發表討論；個人另需自選一棟建物完成 POE 作業。

### 評量方式：

課堂參與：20%

分組報告（計畫書）：40%

個人報告（POE 作業與閱讀報告）：40%

參考書目：

Bell, Bryan (2004). *Good deeds, good design: community service through architecture*. New York, NY: Princeton Architectural Press

Cherry, E. (1999). *Programming for design, from theory to practice*. New York, NY: John Wiley & Sons, Inc.

Cooper, M., & Francis, C. (Eds.). (1997). *People places: Design guidelines for Urban open space* (2nd ed.). New York: Van Nostrand Reinhold.

Cooper Marcus, C., & Sarkissian, W. (1986). *Housing as if people mattered: Site design guidelines for medium-density family housing*. Berkeley: University of California Press.

Kumlin, R. (1995). *Architectural programming: Creative techniques for design professionals*. New York, NY: McGraw-Hill, Inc.

Low, S., Taplin, D., & Scheld, S. (2005). *Rethinking Urban Parks: Public Space and Cultural Diversity*. Austin, TX: University of Texas Press.

The Federal Facilities Council (2001). *Learning from our buildings: A state of the practice summary of post-occupancy evaluation*. Washington, DC: National academy press.

(以上書籍均在台大總圖)

課程進度：

週次	日期	主題
1	2/21	<p><b>Introduction: the relationships between research and design, history of programming and POE</b>                      全學期課程介紹、作業說明及任務分組                      導論：研究與設計關係、建築計劃歷史與演變</p> <p>Cherry, E. (1999). <i>Programming for design, from theory to practice</i> (Ch 1). New York, NY: John Wiley &amp; Sons, Inc.</p> <p>Preiser, W. F E (2001). The evolution of post-occupancy evaluation: toward building performance and universal design evaluation. In The Federal facilities council (Ed.), <i>Learning from our buildings: A state of the practice summary of post-occupancy evaluation</i> (pp.9-22). Washington, DC: National academy press.</p>
2	2/28	放假
<b>Architectural Programming</b>		
3	3/7	<p><b>Background research; Identifying goals and objectives</b>                      背景研究與釐清計劃目標</p> <p>Hershberger, R. (2002). Behavioral-based architectural programming. In R. B. Bechtel &amp; A. Churchman (Eds.), <i>Handbook of environmental psychology</i> (pp. 292-305). New York: Wiley.</p> <p>Lower Manhattan Development Corporation (2003). <i>The World Trade Center Memorial Competition Guidelines</i>. (紐約世貿中心紀念碑競圖須知)</p>

週次	日期	主題
4	3/14	<b>Gathering information: situating your projects in physical and social context; site selection</b> 認識計劃之實質與社會環境（基地分析）；選址
		Bristol, K. (2004). The Pruitt-Igoe myth. In K. Eggener Ed. <i>American Architectural History: a Contemporary Reader</i> . London; New York, NY: Routledge.
		LaGRO, J. Jr. (2001). <i>Site analysis: linking program and concept in land planning and design</i> (Ch 3, 7, 8). New York : John Wiley
		<b>Assignment 1 due: Create a table of contents of your program and complete a literature search, including project type and project background.</b>
5	3/21	<b>Gathering information: involving users</b> 使用者參與機制之設計
		Bell, Bryan (2004). Finding clients. In Bell, Bryan Ed. <i>Good deeds, good design: community service through architecture</i> (pp.23-30). New York, NY: Princeton Architectural Press
		Chapin, D., & Copper Marcus, C. (1993). Design guidelines: reflections of experiences passed. <i>Architecture and Behavior</i> , 9(1), 99-120.
		<b>Assignment 2 due: select a site for your project and explain criteria used.</b>
6	3/28	<b>Techniques of knowing users</b> 了解使用者與設計需求
		Briggs, C. (1986). <i>Learning how to ask: A sociolinguistic appraisal of the role of the interview in social science research</i> (Ch 3). Cambridge University Press.
		鄒廣天（2010） <i>建築計劃學</i> （第4章 建築計劃學的研究方法）（pp.84-116）。北京：中國建築工業出版社。
		<b>Assignment 3 due: present data collected from your sites and your system of user participation.</b>
7	4/4	放假
8	4/11	<b>Analyzing data: Identifying programmatic strategies</b> 確立設計策略(意象需求與空間關係)
		Cherry, E. (1999). <i>Programming for design, from theory to practice</i> (Ch 7). New York, NY: John Wiley & Sons, Inc.
9	4/18	<b>Establishing quantitative requirements</b> 空間定量
		Cherry, E. (1999). <i>Programming for design, from theory to practice</i> (Ch 8). New York, NY: John Wiley & Sons, Inc.
		<b>Assignment 4 due: define the functions for your projects, and their functional relationships.</b>
10	4/25	<b>Programming that tackles preservation challenges</b> 涉及歷史保存與修建之建築計畫

週次	日期	主題
		<p>Gonchar, J. (2007). A temple to transparency rises in Athens. <i>Architectural Record</i> 2007(6), 176-179 (New Acropolis Museum, 雅典新衛城博物館建築計劃)</p> <p>Pallasmaa, J. &amp; P. MacKeith (2007). On history and culture. <i>Architectural Record</i> 2007(6), 105-107</p> <p><b>Assignment 5 due: Quantifying your spatial information.</b></p>
11	5/2	<p><b>Completing programs to define design problems</b> 製作設計準則、完成計畫書</p> <p>Cooper Marcus, C. (1986). Design guidelines: A bridge between research and decision-making. In W. H. Ittleson, M. Asai, &amp; M. Ker (Eds.), <i>Cross cultural research in environment and behavior: Proceedings of the 2nd U.S.-Japan seminar</i> (pp.56-83). Tucson: University of Arizona.</p> <p>Cooper Marcus, C., &amp; Sarkissian, W. (1986). Design guidelines: What they are and how to use them. In <i>Housing as if people mattered: Site design guidelines for medium-density family housing</i> (pp. 10-20). Berkeley: University of California Press.</p> <p>Several examples of design guidelines will be examined.</p>
12	5/9	<b>Assignment 6 due: Presentation of design guidelines.</b>
<b>Post-Occupancy Evaluation (POE)</b>		
13	5/16	<p><b>Introduction -- purposes and concepts</b> <b>Public housing POE presentation: The East Woods development, Roosevelt Island and Marcus Garvey Park Village, Brooklyn</b> 導論；針對紐約市 UDC 設計之羅斯福島及布魯克林區低層高密度公共住宅之使用後評估介紹</p> <p>Low, S., Taplin, D., &amp; Scheld, S. (2005). <i>Rethinking Urban Parks: Public Space and Cultural Diversity</i> (Ch 8) (pp.175-194). Austin, TX: University of Texas Press.</p> <p>Zimring, C. (2002). Post-occupancy evaluation: Issues and implementation. In R. Bechtel &amp; A. Churchman Eds., <i>Handbook of environmental psychology</i> (pp. 306-319). New York: Wiley.</p>
14	5/23	<p><b>Movement and activities: behavioral approach</b> Participant observation/field notes/behavior and movement maps</p> <p>Emerson, R. M., R. I. Fretz &amp; L. L. Shaw (2001). Ch. 24 Participant Observation and fieldnotes. In <i>Handbook of Ethnography</i>. Newbury Park: Sage Publication.</p> <p>Low, S. (2003). Constructing difference. In <i>On the plaza</i>. University of Texas Press.</p> <p><b>Assignment 7 due: field notes of individual sites</b></p>
15	5/30	<p><b>Attitudes and cultural values: Phenomenological approach</b> Transect walk/ guided tours (mobile interview)</p>

週次	日期	主題
		<p>Bendiner-Viani, G. (2005). Walking, Emotion, and Dwelling: Guided Tours in Prospect Heights, Brooklyn. <i>Space and culture</i> 8(4), 459-471.</p> <p>Lawson, (2000). <i>Language of space</i>. (Ch 2. Mechanism of perceiving space). Oxford architectural Press.</p> <p><b>Assignment 8 due: behavior maps/movement maps of individual sites</b></p>
16	6/6	放假
17	6/13	<p><b>Visual and aesthetic qualities: filming videos, cognitive map, semantic differential (SD) approach</b></p> <p>Pink, S. (2006). <i>Doing visual ethnography</i>. London: Sage.</p> <p>Whyte, H. W (1988). <i>Social life of small urban spaces</i>. (Video)</p> <p><b>Assignment 9 due: cognitive maps or mobile interview of individual sites</b></p>
18	6/20	<p><b>Sustainability (LEED , Leadership in Energy &amp; Environmental Design) and universal design evaluation; Synthesis of POE</b></p> <p>Thompson &amp; Steiner (1997). Introduction in <i>Ecological design and Planning</i>. New York-Wiley.</p> <p><b>Assignment 10 due: POE plans for your programs (groups)</b></p>