

## GEOG3402 Port and Airport Development (6 credits)

**Course Instructor: Dr. Max Hirsh ([hirsh@hku.hk](mailto:hirsh@hku.hk))**

Meeting Time: Wednesdays, 12:30-14:20 (see schedule below)

Meeting Room: CPD 3.01



### Objectives

This course aims at providing students with a fundamental understanding of ports and airports from a transport system perspective and a regional development perspective.

### Course Synopsis

Ports and airports are regarded in transport geography as two nodal development forms in multi-modal transport systems. Through a series of seminar-like discussions, this course provides an understanding of port and airport operations, and how these two forms of nodal transport infrastructure interact with other transport components and with urban and regional development. Examples drawn from different parts of the world will be discussed in detail and students are required to examine the local cases through field trips.

### Lecture Overview

1	17 Jan	Course Introduction
2	24 Jan	The Evolution of Airports and Air Travel
3	31 Jan	Deregulation and its Effects
4	07 Feb	Airport Planning, Design, and Operation
5	14 Feb	Airports and Urban Development
6	28 Feb	Airports, People, and the Environment
7	07 Mar	Reading Week – Group field trips in Hong Kong
8	14 Mar	The Evolution of Ports and Maritime Trade
9	28 Mar	Ports and Urban Development
10	04 Apr	Regional Focus: Europe and North America
11	18 Apr	Regional Focus: Asia, Australia, and the Middle East
12	25 Apr	The Future of Ports and Airports

### Assessment

**Coursework (40%).** Coursework is made up of two components:

**Group Project (25%):** Working in small groups, students will develop a project based on research conducted at current and former port- and airport-related sites in Hong Kong: including Hong Kong International Airport (HKIA), Kwai Tsing Container Port, Tung Chung New

Town, Kai Tak, Western District Public Cargo Pier, and the Airport Express stations. Projects will be developed in consultation with the instructor. Each group will gather data about their site through a variety of research methods including on-site observation, surveys, informal interviews, mapping, and photography. They may also use statistical information and reference material found at HKUL, and in the department's map library and GIS laboratory.

Each group will be expected to make an in-class presentation, and to hand in a final report that documents their research. Instructor will provide project guidelines, including a template for the presentation and report.

**Attendance and Class Participation (15%):** Regular attendance and active participation in class discussions are essential in order to earn a good grade. You will also be expected to complete 1-2 short readings for each course meeting (see reading list below). You should prepare a question or comment about each reading, to be discussed in class.

Students are expected to attend all course meetings. Unexcused absences will result in a lower course grade. Exceptions will be made for family emergencies, or if you are ill. In those cases, please submit a note from your doctor or relative.

**Examination (60%):** For the final examination, students will be given a choice of four essay questions, and will be asked to respond to two of them. The examination will take place during the assessment period, and will be administered as a take-home exam. Students will receive the questions by email and will reply with their essays within a defined period of time. Late submissions will not be accepted.

### **Learning Outcomes**

Knowledge:

- Understanding of the role of ports and airports in both global and local economies
- Comprehension of ports and airports as elements in regional transport networks
- The relationship between urban development and nodal transport facilities

Skills:

- Analytical capacity of case studies
- Ability to identify major factors affecting the specific port/airport role in a region
- Ability to apply a conceptual framework in transport geography to real transport issues

### **Reading List**

(\*) = required readings

(+) = recommended readings

#### **The Evolution of Airports and Air Travel (24 January)**

(\*) Bowen, John. *The Economic Geography of Air Transportation: Space, Time, and the Freedom of the Sky*. London: Routledge, 2010. 11-38.

(+) Dierikx, Marc. *Clipping the Clouds: How Air Travel Changed the World*. London: Praeger, 2008.

(+) Pearman, Hugh. *Airports: A Century of Architecture*. London: Laurence King, 2004.

#### **The Effects of Deregulation (31 January)**

(\*) Hirsh, Max. "Cheap Tickets." *Airport Urbanism: Infrastructure and Mobility in Asia*. Minneapolis: University of Minnesota Press, 2016. 105-135. [see also color plates 16-18 after page 78]

(+) Graham, Brian. "International Air Transport." Hoyle, Brian and Richard Knowles (eds.).

*Modern Transport Geography*. Chichester: Wiley, 1998. 311-336.

(+) Yang Xiuyun and Yu Hong. "Deregulatory Reform of China's Airports: Attracting Non-State Investors." *East Asian Policy* 2:2 (April 2010). 62-72.

### **Airport Planning, Design, and Operation (7 February)**

(\*) Hayes, Brian. "Aviation." *Infrastructure: A Field Guide to the Industrial Landscape*. New York: W. W. Norton, 2005.

(\*) Humphreys, Ian and Graham Francis. "The Airport-Airline Relationship." Budd, Lucy and Stephen Ison (eds.). *Air Transport Management: An International Perspective*. London: Routledge, 2017. 95-106.

(+) Graham, Anne and Peter Morrell. *Airport Finance and Investment in the Global Economy*. London: Routledge, 2017.

### **Airports and Urban Development (14 February)**

(\*) Bruegmann, Robert. "Airport City." Zukowsky, John (ed). *Building for Air Travel: Architecture and Design for Commercial Aviation*. Chicago: Art Institute of Chicago, 1996.

(\*) Schaafsma, Maurits. *Airport and City. Airport Corridors: Drivers of Economic Development*. Schiphol, Netherlands: Schiphol Real Estate, 2010.

(+) Kasarda, John and Greg Lindsay. *Aerotropolis: How We'll Live Next*. New York: Farrar, Straus & Giroux, 2011.

### **Airports, People, and the Environment (28 February)**

(\*) Budd, Thomas. "Environmental Impacts and Mitigation." Budd, Lucy and Stephen Ison (eds.). *Air Transport Management: An International Perspective*. London: Routledge, 2017. 283-306.

(\*) Pollalis, Spiro (ed.). "Sustainable Transportation Planning." *Planning Sustainable Cities: An Infrastructure-Based Approach*. London: Routledge, 2016. 78-93.

(+) Graham, Anne. "The Environmental Impact of Airports." *Managing Airports: An International Perspective*. London: Routledge, 2014. 287-308.

### **The Evolution of Ports and Maritime Trade (14 March)**

(\*) Hilling, David and Michael Browne. "Ships, Ports, and Bulk Freight Transport." Hoyle, Brian and Richard Knowles (eds.). *Modern Transport Geography*. Chichester: Wiley, 1998. 241-261.

(\*) Levinson, Marc. *The Box: How a Shipping Container Made the World Smaller and the World Economy Bigger*. Princeton: Princeton University Press, 2016.

### **Ports and Urban Development (28 March)**

(\*) Hein, Carola (ed). *Port Cities: Dynamic Landscapes and Global Networks*. London: Routledge, 2011.

(+) Gipouloux, François. *The Asian Mediterranean: Port Cities and Trading Networks in China, Japan, and South Asia*. London: Edward Elgar, 2011.

### **Regional Focus: Europe and North America (4 April)**

(\*) Boucsein, Benedikt et al. *The Noise Landscape: A Spatial Exploration of Airports and Cities*. Rotterdam: nai010, 2017.

(+) Burghouwt, Guillaume. *Airline Network Development in Europe and its Implications for Airport Planning*. Aldershot: Ashgate, 2007.

### **Regional Focus: Asia, Australia, and the Middle East (18 April)**

(\*) Hirsh, Max. "Special Zones." *Airport Urbanism: Infrastructure and Mobility in Asia*. Minneapolis: University of Minnesota Press, 2016. 75-104. [see also color plates 12-15 after]

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(+) Shaw Shih-Lung et al. "China's Airline Consolidation and its Effects on Domestic Airline Networks and Competition." *Journal of Transport Geography* 17 (2009). 293-305.

(+) Shen Jianfa. "Assessing Inter-City Relations Between Hong Kong and Shenzhen: The Case of Airport Competition or Cooperation." *Progress in Planning* 73 (2010). 55-73.

#### **The Future of Ports and Airports (25 April)**

(\*) Beard, Jonathan and Caroline Thomas. "Shipping in Hong Kong: The Outlook for Hong Kong's Maritime Sector." *Market Intelligence* 4:4 (August 2017). 26-30.

(\*) Fischer, YJ. "Rethinking Airport Travel." *Hyperloop One*. 20 December 2017.

<https://hyperloop-one.com/blog/rethinking-airport-travel>