CE G2200: Urban Freight and City Logistics  
City College of New York, Spring 2015  
Wednesdays, 6:30 PM to 9:00 PM

INSTRUCTOR INFORMATION:  
Instructor: Dr. Alison Conway  
Office: Steinman Hall (ST) T-195  
Office Hours: Wednesdays 4:00 PM to 5:30 PM, or by appointment. During office hours, I will also be available by Skype.

Email:aconway@ccny.cuny.edu  
Please note, I check class emails Monday through Friday. If I do not respond to your email within 48 hours on these days, please resend a polite reminder, as messages do occasionally get lost in my inbox. Emails sent over the weekend or on holidays will receive a response on the next working day.

COURSE CONTENT AND OBJECTIVES:  
City Logistics involves the means over which freight distribution can take place in urban areas as well as the strategies that can improve its overall efficiency while mitigating congestion and environmental externalities. It includes the provision of services contributing to efficiently managing the movements of goods in cities and providing innovative responses to customer demands. City logistics has received a growing level of attention in light of urbanization throughout the world, rising standards of living, globalization, and new forms of consumption such as e-commerce.

This graduate course introduces the core concepts, challenges and methods of city logistics. It has three main objectives:

1. The student will be exposed to the combination of two realms of enquiry defining city logistics that have rarely been jointly considered; urban studies and freight transportation.  
   Urban geography relates to the understanding of urban areas and their dynamics. The field draws from a long tradition in geography, planning, sociology, and engineering investigating the urban spatial structure and the drivers of its changes. Freight transportation relates to the understanding of goods distribution, which mostly draws from supply chain management and intermodal transportation.

2. The student will be introduced to the main components of an urban freight transport system and its primary stakeholders.  
   The urban environment is eminently complex, which makes urban freight distribution a very different endeavor than non-urban transport. The “last mile” in freight distribution is prone to challenges that need to be addressed by relevant policies and mitigation strategies.

3. The student will have the opportunity to learn several dimensions of what the practice of city logistics implies.  
   Data sources and data collection methods will be introduced. A set of methodologies supporting policies and decision making will also be explored. Illustrative case studies will be introduced, analyzed and debated.

REQUIRED TEXT:  
There is no required textbook for this course. Required reading materials will be available electronically via Dropbox.
ASSIGNMENTS:
Exams: There will be a mid-term exam and a cumulative final exam. Exams will be conducted in the classroom and will be open book/open notes. If needed, calculators may be used during exams; however no cell phones, tablets, computers, iPods or other electronic devices may be used. The midterm exam will constitute 25% of your final grade; the final exam will determine 30% of your final grade.

Project: Each student will complete a project examining and evaluating a specific city logistics implementation. The student will be required to submit a written report and to complete a 10-15 minute in-class presentation detailing findings. Together, the written report and presentation will constitute 35% of your final grade.

Class Participation: Students are expected to complete class readings, attend classroom meetings, and actively participate in classroom activities and discussions. Students will also be expected to participate as specified in online discussion forums. Classroom and online participation will determine 10% of your final grade.

Disability Policy: In compliance with CCNY policy and equal access laws, appropriate accommodations are administered by the AccessAbility Center. Students who register with AccessAbility, and are entitled to specific accommodations, must request a letter from AccessAbility to present to the Professor that states what their accommodations are. If specific accommodations are required for a test, students must present an “Exam Administration Request Form” from AccessAbility at least one week prior to the test date in order to receive their accommodations.

GRADES
Grades will be assigned according to the following grading scale:

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<th>Grade</th>
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<td>A</td>
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Course Readings:

**MODULE 1: FREIGHT AND THE CITY**

**Lecture 1: Urban Planning**
The urban planning process and the main discrepancies between conventional urban planning and freight distribution.

**Required Readings:**

**Additional References:**

**Lecture 2: Urban Geography**
Historical and geographical processes that have led to urbanization. The evolution of transport technologies and their impacts of the urban spatial structure.

**Required Readings:**

**Lecture 3: Urban Economics**
Urban Economics. How freight transportation is linked to the role cities play in regional economies. Transportation and land use dynamics such as economic activities, forms of consumption and urban transport demand.

**Required Readings:**


**Lecture 4: Supply Chain Management**
Supply Chain Management. How supply chains are established and how they operate. Major trends in global manufacturing and distribution.

**Required Readings:**

**MODULE 2: ISSUES AND CHALLENGES OF CITY LOGISTICS**

**Lecture 5: Urban Freight Distribution**
The components related to urban freight transportation such as modes and terminals. The provision of urban freight transport services and the main distribution channels used.

**Required Readings:**
Recommended Readings:

Lecture 6: Stakeholders of Urban Logistics
The providers of urban transportation services, the workforce and the regulators.

Required Readings:
   - Rodrigue, J-P. “Main Stakeholders in Urban Freight Distribution.”

Recommended Readings:

Lecture 7: Urban Logistics Facilities
The physical organization of urban freight terminals. How distributors and retailers are setting facilities.

Required Readings:

Recommended Resources:

Lecture 8: Congestion and Externalities
The major challenges and externalities in urban freight distribution.

Required Readings:
License: Mitigation Policies and Strategies

The main strategies that have been implemented and their outcome. The balance between conventional and alternative modes of urban freight distribution.

Required Readings:

Module 3: City Logistics in Practice

Lecture 10: Data Sources and Collection
The major types of urban freight data. Emerging strategies and technologies in the collection of urban freight data.

Required Readings:

Lecture 11: Urban Freight Models
Review of the most common models used to estimate the generation, attraction and allocation of urban freight movements. The benefits and pitfalls of urban freight modeling.

Required Readings:
Lecture 12: Case Studies and Best Practices

Selected case studies of city logistics strategies involving modes, terminals and regulations. Assessment of their respective effectiveness.

Recommended Resources: