

**Carleton University**  
**Department of Civil & Environmental Engineering**  
**CIVE 4303**  
**URBAN PLANNING**

**Syllabus and Course (Learning) Objectives**

**The objectives of this course are:**

1. To present concepts, methods, and techniques that are used for urban planning
2. To present available information on the “Future of Cities”
3. To treat the urban area as a system for the purpose of planning infrastructure (e.g., transportation, water supply, waste water disposal)
4. To use systems analysis as a tool for urban planning and to introduce models of transportation-land use interaction.

**It is expected that this course will provide knowledge on:**

- the role of professional persons who contribute to various facets of planning an urban area, and
- the philosophy and methodologies that guide them in planning the urban system, including infrastructure.

Frequent references will be made to real-world practices in urban planning.  
September 2020

	<b>Learning Outcome expectation for lecture and/or lab experience</b>
1	Knowledge of urbanization trends globally and in North America
2	Understanding of the urban system and systematic approach to urban planning
3	Learning methods for projecting population and employment
4	Design and application of comprehensive official plan
5	Application of quantitative methods and Geographic Information Systems (GIS)

6	Knowledge of planning and design of municipal services
7	Knowledge of space requirements and spatial distribution of land uses
8	Understanding of joint planning and design of land use and transportation
9	Learning zoning process, design of subdivision, and redevelopment of land
10	Knowledge of tools for assessing environmental impacts
11	Knowledge of methods for evaluation of urban plans
12	Design of selected sites

### Tentative Course Outline

WEEK	TOPIC	READINGS
1	Introduction to urban	Text book chapter: 1-4 Course notes
	Evolution and trends	
	Urbanization in Canada	
2, 3	The urban system	Text book chapters: 5-8, 16 -19 City of Ottawa Official Plan Course notes
	Systematic approach to urban planning	
	Planning theory, policy analysis	
	The Comprehensive planning process	
	Introduction to official plan	
4	Quantitative methods	Text book chapters: 8,9 Course Notes
	Computer methods in urban planning and Management	
	Geographic Information Systems (GIS)	

5, 6	Tooling up studies: land information system, studies of urban economy, population studies	Text book chapter: 8, 9, 11, 13 Course notes	
	Location requirements		Course notes
	Determining the spatial distribution of land use, space requirements		
8, 9	Functional planning: and urban design, zoning and land subdivision	Text chapter: 5-12 (inclusive), 14-16 Course notes	
10, 11	Transportation and land use		Text chapter: 12 Course notes
12	Evaluation of urban plans		

**NOTES:**

- October 12, 2020 is the Thanksgiving (No Class)
- October 26-30 is the Fall Break (No Class)
- Our last class will be Friday December 11<sup>th</sup>
- Weekly lecture meeting will be held online and will be recorded for those who cannot attend
- Laboratory sessions will be held every other week and are also optional. These sessions will be used at periods for questions and answers and a period to work on the assignments.

Other tentative key dates.

Assignment Number	Assignments Issued (Laboratory Date)	Assignments Due (by the start of Lecture)
1	September 24, 2020	October 5, 2020
2	October 8, 2020	October 19, 2020
3	October 22, 2020	November 2, 2020
4 & 5	November 19, 2020	December 7, 2020
Midterm	November 5, 2020	
Final	TBA	

**Required Reading:**

**Textbook:**

Levy, John M. 2018. Contemporary Urban Planning. 11<sup>th</sup> Edition. Routledge, Taylor and Francis Group.

**Other Required Reading:**

- (a) ) Official Plan, City of Ottawa, and associated information on planning and zoning ([www.ottawa.ca](http://www.ottawa.ca) > City Hall > Official Plan)
- (b) Model Urban Design Guidelines (Niagara Region) & Urban Design (City of Ottawa) (posted on WebCT)
- (c) ) Selected papers posted on WebCT

**References**

1. Catanese, A. J. and Snyder, J.C. Urban Planning. 2nd Edition. McGraw–Hill, Inc. 1988.
2. Chapin, Jr., F. Stuart and Edward J. Kaiser. 1979. Urban Land Use Planning. 3<sup>rd</sup> Edition. University of Illinois Press.
3. Friedman, Avi. Sustainable Residential Development, Planning and Design for Green Neighbourhoods, McGraw-Hill, 2007.
4. Duany, Andres, Speck, Jeff, and Lydon, Mike. The Smart Growth Manual. McGraw -Hill, 2010.
5. Hodge, G. Planning Canadian Communities, An Introduction to the Principles, Practices, and Participants. Fourth Edition. Thomson. Nelson. 2003.
6. Macionis, J.J. and Parrillo, V.N. Cities and Urban Life. Seventh Edition. Pearson. 2017.
7. Bunting, T. and Filion, P., Walker, R. (Editors), Canadian Cities in Transition: New Directions in the Twenty-First Century. Oxford University Press. 2010.
8. Lynch, K. (1984). Good city form. MIT press.
9. Jacobs, J. (2016). The death and life of great American cities. Vintage.

**Course Requirements & Marking Scheme**

- Assignments 20%
- Term Test 30%
- Final Examination 50

**Course Instructor**

Professor Adam Weiss Room  
3044 Minto Centre  
Email: adam.weiss3@carleton.ca

**Teaching Assistants**

**NOTE: Office hours, contact information and office location will be announced on this website at a later date.**

## **Announcements**

### **1. Accommodations**

“The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your *Letter of Accommodation* at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). **Requests made within two weeks will be reviewed on a case-by-case basis.** After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website ([www.carleton.ca/pmc](http://www.carleton.ca/pmc)) for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).”

Short URL: <https://carleton.ca/pmc/?p=492>

### **Other Academic Accommodation**

***Pregnancy obligation:** write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website <http://www2.carleton.ca/equity/accommodation/>*

***Religious obligation:** write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website <http://www2.carleton.ca/equity/accommodation/>*

### **2. Marked Final Examination Papers**

Marked final examinations will not be returned.

### **3. Copyright Protection**

"Classroom teaching and learning activities, including lectures, discussions, presentations, etc., by both instructors and students, are copy protected and remain the intellectual property of their respective author(s). All course materials, including PowerPoint presentations, outlines, and other materials, are also protected by copyright and remain the intellectual property of their respective author(s).

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