

Carleton University
Department of Civil & Environmental Engineering
CIVE4303
Urban Planning
2021
Syllabus and Course Objectives

Course Instructor

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

Teaching Assistants

TBD

Course Overview

A systematic approach to urban planning; urban sprawl; data collection; forecasting; standards; space requirements; land use; zoning; transportation; land development; site selection; land capability; layout; evaluation; housing; urban renewal and new towns.

Prerequisite(s): fourth-year status in Engineering, second year standing in B.A.S. (Urbanism), or permission of the Department.

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, wastewater 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.

Expected Learning Outcomes

At the end of the course students should be able to

- Describe urbanizations trends globally and in North America
- Implement a systems analysis approach to discussing urban planning issues.

- Predict population and employment growth using projection methods
- Explain the purpose of official planning documents such as the comprehensive

official plan

- Perform basic analysis with geographic information systems in an urban planning context
- Interpret the interconnection between the transportation and land use systems
- Assess the efficacy of urban planning practices
- Explain the meaning of zoning codes used by the city of Ottawa
- Integrate urban planning best practices in the design of selected sites.
- Apply environmental impact assessment methods as used by the City of Ottawa
- Apply basic transportation land use interaction models.

Tentative Course Topics

- Introduction to urbanism and cities
- Evolution of urbanism and trends
- Urbanization in Canada
- Introduction to the urban system and a systematic approach to urban planning
- Planning theory and policy
- Comprehensive planning process
- Introduction to the official plan
- Introduction to quantitative and computer methods in urban planning
- Application of GIS for urban planning
- Land information systems
- Urban economy
- Population forecasting methods
- Location and space requirements for different infrastructure
- Spatial distribution of land uses
- Interpreting zoning codes
- Transportation and land use models
- Evaluation of urban plans
- Environmental impact assessments

This course is a Mixed Modality Course:

This course is an online course where there is a mixture of synchronous meetings and asynchronous activities. This means students need to be prepared to meet some of the time online via web conferencing tools at scheduled days and times. The asynchronous activities are intended to provide flexibility to students when the class is not meeting synchronously. Students are expected to remain up to date with the deadlines and due dates provided by the instructor. These courses require reliable high-speed Internet access and a computer (ideally with a webcam), and a headset with a microphone.

In general, the Wednesday meetings of this course will be done synchronously and will typically involve more in class discussion. The Monday meetings of the course will typically be asynchronous and will involve a pre-recorded lecture presenting theory and concepts. Changes to this pattern will be communicated one week in

advance. The lab/tutorial sessions will act as informal Q&A sessions, allowing students to interact with teaching assistants and/or the instructor in a more informal setting. Attendance at these lab sessions is completely optional. The synchronous meetings of this course are also optional, though students are highly encouraged to attend

Web conferencing sessions in this course will be recorded and made available only to those within the class. Sessions will be recorded to enable access to students with internet connectivity problems, who are based in different time zone, and/or who have conflicting commitments. If students wish not to be recorded, they need to leave your camera and microphone turned off.

You will be notified at the start of the session when the recording will start, and Zoom will always notify meeting participants that a meeting is being recorded. It is not possible to disable this notification.

Please note that recordings are protected by copyright. The recordings are for your own educational use, but you are not permitted to publish to third party sites, such as social media sites and course materials sites.

You may be expected to use the video and/or audio and/or chat during web conferencing sessions for participation and collaboration. If you have concerns about being recorded, please email me directly so we can discuss these.

Other key dates.

Assignment Number	Assignments Issued (Laboratory Date)	Assignments Due (by the start of Lecture)
1	September 13, 2020	October 5, 2020
2	October 1, 2020	October 19, 2020
3	October 15, 2020	November 2, 2020
4	November 19, 2020	December 10, 2020
Midterm	Tentatively November 5, 2020	
Final	TBA	

Notes:

- October 11, 2021 is the Thanksgiving (No prerecorded material)
- October 25-29 is the Fall Break (No Class)
- Our last class will be Friday December 10th
- Laboratory sessions will be held every other week and are optional*. These sessions will be used as periods for questions and answers and a time to work on the assignments with assistance from teaching assistants and the instructor.
- *Note that the midterm is tentatively scheduled for the laboratory time on

November 5th

Debates:

Each person will participate in one debate. The debates involve groups arguing the “pro” or “con” side of a current planning issue in the Canadian context. Class votes determine the winner of each debate (worth 1 mark out of 10). The debates will involve both teams creating two pre-recorded videos, the first presenting initial arguments for or against the resolution and the second to be presented the following week regarding a rebuttal to the opposing team’s arguments. A short-written report documenting each team’s position is also required. Further details concerning the debate format and topics to be debated are forthcoming and will be posted on brightspace.

Required Reading:

Textbook:

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

Other Required Reading:

1. Official Plan, City of Ottawa, and associated information on planning and zoning (www.ottawa.ca > City Hall > Official Plan)
2. Model Urban Design Guidelines (Niagara Region) & Urban Design (City of Ottawa) (posted on WebCT)
3. 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. 3rd 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 Fillion, 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. (1961). The death and life of great American cities. Vintage.
10. Meadows, D. H. (2008). Thinking in systems: A primer. chelsea green publishing.

Course Requirements & Marking Scheme

Assignments	20%
Term Test	20%

Debates	10%
Final Take Home Examination	50%

Announcements

1. Academic Integrity: Students should be aware of their obligations with regards to academic integrity. Please review the information about academic integrity at: <https://carleton.ca/registrar/academic-integrity/>. This website also contains a link to the complete Academic Integrity Policy that was approved by the University's Senate.
2. Plagiarism: Plagiarism (copying and handing in for credit someone else's work) is a serious instructional offense that will not be tolerated.

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 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) 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/>

Marked Final Examination Papers

Marked final examinations will not be returned.

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).

Students registered in the course may take notes and make copies of course materials for their own educational use only. Students are not permitted to reproduce or distribute lecture notes and course materials publicly for commercial or non-commercial purposes without express written consent from the copyright holder(s)."