

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

Office Hours, Monday – Wednesday 10:00 AM to 11:00 AM

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

Other key dates (tentative).

Assignment Number	Assignments Issued (Laboratory Date)	Assignments Due (by the start of Lecture)
1	September 15, 2022	September 29, 2022
2	September 29, 2022	October 13, 2022
3	October 13, 2022	November 3, 2022
4	November 17, 2020	December 1, 2020
Midterm	Tentatively November 3, 2022, during laboratory period	
Final	TBA	

Notes:

- October 24-28 is the Fall Break (No Class)
- Our last class will be Thursday December 8th
- 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

- *Note that the midterm is tentatively scheduled for the laboratory time on November 3rd

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 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. (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%
Midterm Test	20%
Debates	10%
Final Examination	50%

Lectures: Two times a week as per the University schedule.

Problem Sessions: Problem sessions will be held from every two weeks on Thursday evenings.

Communications: Knowledge of Brightspace is very important to receive timely announcements and course materials. All correspondences will be conducted through Brightspace Email Service.

Office Hours: Instructor: Wednesday, Thursday; 12:00 PM to 1:00 PM. MC 3044
Teaching Assistants: Office hours and locations will be posted on Brightspace.

Course-related University Rules and Services:

Accommodations:

The Paul Menton Centre for Students with Disabilities (PMC) provides academic accommodations and support services to students with Learning Disabilities (LD), 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 permanent, persistent/prolonged, or temporary disability requiring academic accommodations in my course, please contact the PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation.

If you are already registered with the PMC, please request your accommodations for this course through the Ventus Student Portal 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. For final exams, the deadlines to request accommodations are published in the University's Academic Calendars.

After requesting accommodations through the Ventus Student Portal, please meet with me to discuss your accommodation needs and how they will be implemented in my course."

You can visit the Equity Services website to view the policies and to obtain more detailed information on academic accommodation at: <http://www.carleton.ca/equity/>

Plagiarism: Academic Integrity: Please refer to the following for the rules and

regulations at Carleton around plagiarism and academic integrity.

<https://carleton.ca/registrar/academic-integrity/>

Emergencies or Unsuitable Exam Times: Exam Deferrals:

<https://carleton.ca/registrar/deferral>

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For last day of registration, please refer to University regulations for the academic year on <https://calendar.carleton.ca/academicyear/>

Covid19 counter measures:

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are a number of actions you can take to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette. Feeling sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton's symptom reporting protocols.

Masks: Carleton has paused the COVID-19 Mask Policy, but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

Vaccines: Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in cuScreen as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the University's COVID-19 website and review the

Frequently Asked Questions (FAQs). Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

Course-specific Rules:

Lectures and course materials, including presentations, outlines, and similar materials, are protected by copyright. You may not and may not allow others to reproduce or distribute lecture notes and course materials publicly without the instructor's express written consent.

On-time attendance is very important. Late students whose arrival is disrupting to the class must do due diligence to minimize the impact of their late entry.

Late assignments (not covered by Article 2.6: Deferred Term Work in Undergraduate Regulations for Course Evaluation) will not be accepted if submitted later than one day after the announced submission deadline. The total mark will be discounted by 15% after the submission deadline and will be discarded if submitted on or after the 2nd calendar day after submission deadline.

Assignments are to be submitted online through the course portal on Brightspace. Assignments detected by the Teaching Assistants to be of similar form will be referred to the instructor and will not be awarded a mark for their work. The instructor will review these assignments against university policy on plagiarism (refer to university policy [2]).

The student must request permission to be absent from the midterm examination without forfeiting its mark. This request must be submitted to the instructor no later than 3 days after the scheduled time of the midterm examination. The student must accompany this request with a proof of an unavoidable cause, *e.g.*, a formal medical report. Any claim of extraordinary circumstances must be substantiated by proof. Claims which lack adequate proof will be dismissed and the student will receive a zero for the midterm examination. The student will need to immediately consult with the instructor to make alternative arrangement for the missed test. The student must notify the instructor of the request for alternative arrangement in due course, *i.e.*, no later than 3 days after the scheduled day of the midterm test.

The student is responsible for following all course-related announcements on Brightspace. These announcements include, but not limited to, assignments, deadlines, and examination instructions.