



URBDP 510 A: Planning Methods

WINTER 2021

Lecture: Mondays and Wednesdays | 1:30 - 2:50 pm | Online via Zoom

Instructor : Christine Bae, Ph.D., Associate Professor

Office Hours: Mondays | 3-4 pm or by appointment | Zoom

Purpose

This course is a required core course for students who are pursuing a master's degree in Urban Planning or a Certificate of Urban Design. The course targets students who are in the first year MUP program and do not have a previous degree in urban planning.

There is a wide range of quantitative and qualitative planning methods in our discipline. However, particular attention will be given to planning methods that are useful foundations for planning policy analysis, e.g. demographic, economic, and environmental planning.

The primary objectives of this course are as follows:

1. to be familiar with primary and secondary data sources
2. to be familiar with data-driven, computer-based quantitative methods and their applications
3. to discuss the outcomes and limitations of each method's application
4. to develop a critical perspective of model applications in urban planning

The course consists of lectures, computer lab assignments. There are no prerequisites. However, those who have never used MS Excel, ArcGIS, or need additional help to undertake class assignments, should consult Christine and Boyang by Jan 6 (Wed), 2021.

Overview

This course is comprised of four important topics for urban planning; (1) the economic-based model, (2) cohort component population projection, (3) land capacity analysis, and (4) indicators and indices.

Because there are four modules with assignments, you may feel that the class moves quickly. Your continuous attendance and timely submission of the assignment are very important.

The class will be taught on Zoom. All students should bring their own personal laptops to class. The class will use MS Excel and ArcGIS. Assignment guidelines and help kits are available in MS Excel and ArcGIS. Students who use Mac should be ready to use those programs. This will allow us to devote more time to

the mechanics of each of the methods, and to develop an understanding of the methods through hands-on exercises. The Canvas website will provide the reading materials (PDF files), a set of presentation slides that summarize the material that will be covered in class, the assignments with selective databases, and other supplemental notes. It is expected that you will review materials prior to a topic being addressed in class. Each method will be discussed for approximately two to three weeks. It is highly advised that you save your own worksheet, program, and other related materials from class to class since each day builds on the previous day's work.

Grading

There are two different components that contribute to grading.

1. Computer labs and assignments (90 percent)
2. Class participation (10 percent)

All assignments (there are four; see course schedule) should be submitted via the Canvas [assignments page](#) by 11:59 pm on the due date. Keep written answers within the specified length and use the file types and name formats indicated in the assignment instructions. You are expected to submit every assignment on time, and quality counts. If you believe that you will have difficulty in meeting any of the assignment deadlines, please consult Christine and/or Boyang prior to the deadlines. We encourage active class participation and constructive discussion. There is no final exam.

If you have a disability (physical, learning, or psychological) that makes it difficult for you to carry out the coursework as outlined and/or requires accommodations, such as recruiting note-takers, readers, or extended time on assignments, please contact Christine, or Disabled Student Services, within the first week of the quarter. DSS is available at 685-1511, or at <http://depts.washington.edu/uwdrs/> (<http://depts.washington.edu/uwdrs/>). They will be able to provide you with information and review appropriate arrangements for reasonable accommodation.

Finally, we expect students to uphold university policies on academic integrity. Failure to uphold academic integrity will be dealt with in accordance with university procedures. The UW's policy on academic integrity and plagiarism is located at

<http://depts.washington.edu/grading/pdf/AcademicResponsibility.pdf>
(<http://depts.washington.edu/grading/pdf/AcademicResponsibility.pdf>).

The current course schedule is available in the Canvas calendar below. Also, check the individual module pages for readings and assignment dates.

Modules

1. [Economic base analysis](#) (week 1 - 2, Assignment due date: 1/15). You may choose to work with a partner (maximum group member: 2) OR working independently.
2. [Cohort component analysis](#) (week 3 - 5, Assignment due dates: 1/22, 2/5). For Part 1, each student submits their own work. For Part 2, groups of 2 work together. Groups will be

randomly assigned.

3. [Land capacity analysis](#) (week 6 - 8, Assignment due dates: 2/26): groups of 2 work together.
Groups will be randomly assigned.
4. [Indicators and indices](#) (all quarter, presentations week 9 - 10, Assignment due dates: 1/27, 3/12).
Groups of 3-5 may work together for this project.

Use the Canvas pages linked above to access materials for each module:

Readings

Lecture slides (posted after class)

Assignments (instructions and submission page)