

# URBDP 520 A Au 24: Quantitative Methods In Urban Design And Planning

Aut 2024 | TTH 1:30 pm to 4:20 pm | [GLD 114](#)

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## Instructor & TA Information

### **Kirk Hochstatter**

Email: [hochstki@uw.edu](mailto:hochstki@uw.edu)

Office: 402 Gould Hall

Office Hours: Tuesdays & Thursdays @ 11:00am-1:00pm

Email me if you want to schedule a meeting at other times

### **Ziyang Liu (Doctoral Student)**

Office Hours: Tue 4:30pm-5:30pm / By appointment

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## Course Text Book

Ewing, R. and Park, K. eds., 2020. *Basic quantitative research methods for urban planners*. Routledge.

The book is NOT available in the UW bookstore, but it can be purchased/rented online from the publisher directly.

## Statistical Software

We will use Statistical Software - R Studio and the R programming language in this course. Students will need to install R and R Studio on your personal machines. Please use the following videos for installation:

[Installation for Windows.](#) | [Installation for Mac](#)

## [Detailed Lecture Schedule - Access Weekly Readings, Lectures, Labs, Assignments, Quiz, & Mid-term and Final Exam using Links on this page](#)

**Syllabus (Pdf) - Make sure to review the above link for additional readings. The pdf syllabus will not be updated during the course.**

## Additional Review Handouts

What STATS Test

Mid-term Answers

Here are the additional RMDs I promised:

1. Creating a Composite Index Variable - [RMD File](#) | [Data](#)
  2. Create a correlation matrix - [RMD File](#) | [Data](#)
  3. Sample Project - [RMD File](#) | [Data](#) | [Html Output](#)
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## Course Overview

The primary objective of this course is to familiarize planning students with methods and techniques they are likely to encounter and use in planning departments and organizations. The fundamental task in all good planning activities is to have a good “fact basis” upon which to guide planning activities and to make sound and informed planning decisions. Two of the most important roles of planning departments in most communities are to provide the critical information making up the “fact basis” and then to help the community and its leaders undertake sound planning processes using these data. By “fact basis” I mean gathering data and transforming it into information (so called “facts”) about the nature of the community. This often involves not only describing what things look like now, but also making reasonable projections about what a community’s characteristics are likely to look like in some future time.

Developing the data and fact basis, or more simply the data necessary to know your community, demands the ability to employ a great variety of different types of data and analysis techniques to describe and make projections about a jurisdiction (community, county, region, etc.). While this course cannot provide you with the knowledge of all these various methods and techniques, I will strive to provide you with a survey of some of these techniques and methods and the underlying logic behind various approaches. Our focus will be on basic statistical techniques required for analyzing data and information necessary for undertaking planning decisions. My hope is that the skills and knowledge you acquire during this course will provide you with a foundation from which you can quickly grasp and tackle new or alternative approaches you may encounter in your professional life and, most importantly, gain an understanding that will make you a critical and discerning consumer of planning data.

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## Important Links

[Course Objectives & Learning Outcomes](#)

[Course Requirements](#)

[Course Assessment/ Grading](#)

[Class participation rubric](#)

[Final Project Instructions](#)

[Detailed Lecture Schedule - Access Weekly Readings, Lectures, Labs, Assignments, Quiz, & Mid-term and Final Exam using Links on this page](#)

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## Course Evaluation

Formal course evaluation occurs at the end of the quarter university-wide. If you are experiencing a problem with the class, please let me know as soon as possible, as I might be able to correct for changes if needed within the course of the class.

## Academic Integrity

The University of Washington expects students to know their responsibilities and to maintain the highest standards of academic conduct (WAC 478-121). Students are held responsible for any violation of the University of Washington Student Code irrespective of whether the violation was intentional or not. Students suspected of cheating or otherwise violating the misconduct code will be referred to the College disciplinary process.

Plagiarism is considered a form of cheating at the University of Washington and can result in disciplinary action including and up to dismissal from the university. If you are unsure of what plagiarism is, or how to avoid it, please consult your instructor. For more information on academic responsibility, including plagiarism and other forms of cheating, see <https://www.washington.edu/cssc/facultystaff/academic-misconduct/>.

## Student Conduct

The University of Washington Student Conduct Code (WAC 478-121) defines prohibited academic and behavioral conduct and describes how the University holds students accountable as they pursue their academic goals. Allegations of misconduct by students may be referred to the appropriate campus office for investigation and resolution. More information can be found online at <https://www.washington.edu/studentconduct/>.

## Access and Accommodations

Your experience in this class is important to me. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you have already established accommodations with Disability Resources for Students (DRS), please activate your accommodations via myDRS so we can discuss how they will be implemented in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), contact DRS directly to set up an Access Plan. DRS facilitates the interactive process that establishes reasonable accommodations. Contact DRS at [disability.uw.edu](https://disability.uw.edu).

## Excused Absence from Class

Students are expected to attend class and to participate in all graded activities, including midterms and final examinations. A student who is anticipating being absent from class due to a Religious Accommodation activity needs to complete the Religious Accommodations request process by the second Friday of the quarter. Students who anticipate missing class due to attendance at academic conferences or field trips, or participation in university-sponsored activities should provide a written notice to the instructor ahead of the absence. The instructor will determine if the graded activity or

exam can be rescheduled or if there is equivalent work that can be done as an equivalent, as determined by the instructor.

## Face Coverings in the Classroom

The health and safety of the University of Washington community are the institution's priorities. Please review and adhere to the [UW COVID Face Covering Policy \[pdf\]](#).

## Medical Excuse Notes

Students are expected to attend class and to participate in all graded activities, including midterms and final examinations. To protect student privacy and the integrity of the academic experience, students will not be required to provide a medical excuse note to justify an absence from class due to illness. A student absent from any graded class activity or examination due to illness must request, in writing, to take a rescheduled examination or perform work judged by the instructor to be the equivalent. Students are responsible for taking any number of examinations for which they are scheduled on a given day and may not request an adjustment for this reason alone.

## Religious Accommodations

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy \(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/). Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request form \(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).

## University Support Systems

The University of Washington provides a variety of resources for students to help ensure their health and safety. If you do not see what you need on this list, please consult the departmental website, or speak with your instructor or the graduate advisor, Diana Seimbor, [dsiembor@uw.edu](mailto:dsiembor@uw.edu). UW Student Counseling Center – (206) 543-1240 Schmitz Hall, <http://www.washington.edu/counseling/NationalSuicidePreventionLifeline> – 1 (800) 273-8255 provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

[www.suicidepreventionlifeline.org](http://www.suicidepreventionlifeline.org) UW Sexual Assault

Resources, <https://www.washington.edu/sexualassault/reporting/uw/> UW Police Department Victim Advocate – (206) 543-9337 or [UWPDAdvocate@uw.edu](mailto:UWPDAdvocate@uw.edu) Advocates provide a confidential place for you to seek support, information and assistance if you have experienced sexual assault, sexual harassment, intimate partner violence or stalking. National Sexual Assault Telephone Hotline – 1 (800)-656-4673 Provides free and confidential support. UW Title IX Investigation Office – (206) 616-5334 or [tixinv@uw.edu](mailto:tixinv@uw.edu) For complaints that a university student has violated the sexual misconduct provisions of the Student Conduct Code. The Q Center at UWHUB 315, a supportive student-run center for people of all genders and identities. UW Police – Emergencies 911, Non-emergencies (206) 685-UWPD (8973) For emergencies or to report a crime.