

URP 6931. Introduction to Urban Analytics

# Lecture 14: course evaluation & next steps

Instructor: Shenhao Wang  
Assistant Professor, Director of Urban AI Lab  
Department of Urban and Regional Planning  
University of Florida

# Course evaluation

15 minutes



# How to continue to grow your understanding about urban analytics?

- Analytical Skills

Recipe

- Urban Applications

Ingredients

- Computational Practice

Cookers

Q: What does a chef need to learn for cooking?

4/25/23

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# Balancing your capacity among the three components

## 1. Analytical Skills

### Coding & Math foundations

- Python, calculus, linear algebra, probability & statistics.

### Data analytics

- Data science, statistical methods, machine learning.

### AI specifics

- Graph, Computer vision, NLP, etc.

## 2. Urban Applications

- Transportation
- Economic development
  - Energy
  - Housing
  - Real estate
- Urban design
  - GIS
  - etc.

## 3. Computational Practices

Use the analytical skills to resolve practical/research questions.

- Masters: use the existing methods to answer practical questions
- PhD: advance the research frontier; iteration between research and learning

# Urban Analytics Courses in 2023-2024 academic year

## Fall 2023

### **AI in the Built Environment (DCP4300 & URP 6931)**

- Instructors: Shenhao Wang and Chaofeng Wang
- Prerequisite: Python (?)
- About (Shenhao): data collection, data management, web scraping, simple regressions, GIS visualization, ML basics, etc.

## **Introduction to Urban Analytics**

- Instructor: Yan Wang

## Spring 2024

### **Intermediate Urban Analytics (URP 6931)**

- Instructor: Shenhao Wang
- Prerequisite: (1) Python, (2) AI4BE or Intro to UA, (3) (potentially) another stat/probability course
- About: three modeling paradigms & (potentially) deep learning

The Last

# Questions & Answers

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