Parking

- Explain what is minimum parking requirement?
- Some argue that minimum parking requirement has an impact on our land use, transit use, and car ownership. Explain these effects

Parking

- Some argued that time limit is as effective as pricing. What do you think? Is it as effective as pricing and why or why not.

Parking

- What is performance-based parking?

Parking

- The parking study done by Dadi Ottosson found that the parking demand is the least sensitive around noon time, but most sensitive in the morning around 8 am. Does it make sense to you and why and why not?
- Comparing between the sensitivity of parking demand in downtown core and capital hill, which one is more sensitive? Why?
Safety

• Explain the why, where, and who component in the safety framework.

Safety

• Fatality rate of the older people is much higher than that of younger people. Why?
• It was shown that the relative risk of males engaging in fatal crashes is higher than that of females, however, females’ risk in injuries is higher than that of males. Reasons?

All-Mode Traffic Fatality Rate for Most Sprawling and Most Compact Counties (Ewing, Schieber, and Zegler 2003)

• CRF vs CMF
• Counterfactual
• Before-after and cross-sectional studies

Congestion

• Some planners argue that building dense neighborhoods will effectively reduce congestion, because more people may choose to walk or take public transit. Do you agree? Why or why not?

Congestion

• Jane Jacob prefers dense, but low-rise neighborhoods instead of high-rises. She thinks that the sense of place, created by humans interacting with each other, would be lost in a place full of high rises. Ed Glaeser argues the opposite. His analysis showed that as density continues to increase, the city’s output per worker increases. This increase is attributed to the increasing human interaction with the increasing density. What is your view?
Congestion

- Congestion means that demand exceeding supply. Therefore, one solution is to expand supply. Shall we expand supply?
- Explain triple convergence?
- Some argue that investing on public transit will effectively solve congestion problem. Do you agree? Why or why not?

Congestion pricing

- Congestion pricing has been tolled as a magic that will not only price us out of congestion, but also provide us stable funding for infrastructure investment and maintenance. Explain the underlying concept of congestion pricing. Equity is a potential issue with pricing. Explain this issue and propose two strategies.

Demand forecasting

- How do you modify the trip generation model to account for the effect of pricing on whether to make a trip or not?
- Can you hypothesize a set of utility functions for mode choices in a particular scenario (e.g., shopping trips to downtown) and correctly expect the signs of the parameters?
- Can you derive the shortest path for a pair of origin and destination as well as do a simple assignment?