Key Design-Related References

We will use the design references both for assigned readings, lecture support material, and as references for homework, labs, and the design projects. Many of them are available free online. The NACTO guides are also available in printed copy for a nominal price ($50). The “purchase required” references are only available in hard copy and expensive. I have a couple of copies that can be made available to you.

Available Online

- FHWA HEP (2016) Small Town Small Town and Rural Multimodal Networks (link)
- FHWA (2015) Separated Bike Lane Planning and Design Guide. (link)
- NACTO (2011) Urban Bikeway Design Guide. (link)

Purchase Required

Reading List

The reading list is organized in three categories 1) “Required”, 2) “Optional Journal Articles” and 3) “Additional Resources”. It is expected that all students will read the required materials in advance of the lecture that covers the material. The optional journal articles may be of interest to students who wish to advance their knowledge independently. Graduate students should expect to read 1 or 2 additional articles from this list for assignments. The “Additional Resources” list is reports or guides that are likely to be encountered by a professional in the field. These are usually lengthy documents and you are not expected to read the material.

1 – Introduction

Required


Optional Journal Articles


Additional Resources


2 – Safety

Required

Optional Journal Articles

Additional Resources


3 – Planning

Required

- **Chapter 4:** FHWA (2015) Separated Bike Lane Planning and Design Guide.

Optional Journal Articles


Additional Resources

4 – Counting

Required

Optional Journal Articles

Additional Resources
• Figliozzi, M., Monsere, C., Nordback, K., Johnson, P. and Blanc, B. “Design and
5 – Analysis of Facility Performance

Required


Optional Journal Articles


Additional Resources

- San Francisco Department of Public Health (2009). Bicycle Environmental Quality Index (BEQI).

6 – Design Characteristics For Bicycling

Required


Optional Journal Articles


Additional Resources


7 – Bicycle Facility Design and Operation

Required

- Chapter 5: FHWA (2015) Separated Bike Lane Planning and Design Guide

Optional Journal Articles


Additional Resources


8 – Design Characteristics of Pedestrians

Required


Optional Journal Articles


Additional Resources

9 – Pedestrian Facility Design and Operation

**Required**

- **Chapters 3**: Fitzpatrick, Kay; Turner, Shawn M; Brewer, Marcus; Carlson, Paul J; Ullman, Brooke; Trout, Nada D; Park, Eun Sug; Whitacre, Jeffrey; Lalani, Nazir; Lord, Dominique. Improving Pedestrian Safety at Unsignalized Crossings. TCRP-NCHRP Report, 2006, 109p ([link](#))

**Optional Journal Articles**


**Additional Resources**

- Proposed Guidelines for Pedestrian Facilities in the Public Right-of-Way (2011) ([link](#))
- Chapter 19, Highway Capacity Manual 2010

10 – Shared Use Path Design

**Required:**


**Optional Journal Articles**


Additional Resources


Acknowledgement: This list was inspired and borrows some references from Daniel Rodriguez's list for his course on Bicycle and Pedestrian Planning at University of North Carolina provided courtesy of PBIC.