One Step At A Time: Counting Pedestrians Students Learn
Pedestrian Observation and Data Collection in the Field

Jennifer Dill
Portland State University, jdill@pdx.edu

Tara Beth Goddard
Texas A & m University, taragoddard@gmail.com

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These modules will enrich classroom learning and facilitate fieldwork experience. By encouraging students to consider behavioral interactions of roadway users, these modules provide students with field experience that generates data which underlie behavioral traffic theory and agent-based traffic models. These instructional activities allow students to gain experience in field research design related to traffic safety, while standardizing and collecting much-needed pedestrian data.

**PATHWAY COUNTS**
This assignment allows students to practice collecting manual pedestrian counts along a pathway. The exercise will familiarize students with standardized field data collection.

**INTERSECTION COUNTS**
In this assignment, students learn to count pedestrians and bicyclists at intersections. The exercise will allow students to become familiar with standardized field data collection in a more complex environment.

**CROSSINGS/INTERACTIONS WITH DRIVERS**
This assignment teaches students a methodology for observing pedestrian behavior and driver-pedestrian interactions. These observations can be used to examine engineering and planning decisions, built environment and design, traffic psychology, and roadway safety concepts and challenges.

**WHY IT’S IMPORTANT FOR STUDENTS**

These modules will enrich classroom learning and facilitate fieldwork experience. By encouraging students to consider behavioral interactions of roadway users, these modules provide students with field experience that generates data which underlie behavioral traffic theory and agent-based traffic models. These instructional activities allow students to gain experience in field research design related to traffic safety, while standardizing and collecting much-needed pedestrian data.

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*Curriculum developed by Dr. Jennifer Dill, Portland State University*
MATERIALS LIST

- Clipboards and pens
- Coding sheets (included in the final report)
- Camera (cell phone cameras are fine)

LESSON PLAN OUTLINE

COMPLETE LESSON PLANS AND VISUAL AIDS ARE AVAILABLE IN THE GUIDEBOOK: https://nitc.trec.pdx.edu/research/project/999

- Select locations for students to observe pedestrians (the guidebook offers guidelines for choosing locations).
- Print four to five aerial views or maps of the pathway or intersection for each group
- Encourage students to choose their observation days and times with a purpose (e.g. morning arrivals at a school)
- Students should be prepared to discuss their reasoning and implications in class once observations are complete.
- The final product will be completed observations and a 2-3 page analysis. Complexity will depend on course level.

LEARNING OBJECTIVES

- Gain familiarity with manual pedestrian counts along a pathway
- Learn to count pedestrians and bicyclists at intersections
- Learn to observe behavioral interactions of roadway users
- Gain experience in field research design

UNIQUE ASPECTS

Assigning groups and requiring out-of-class site visits is more flexible for students and preserves lecture time, but is highly dependent on student attendance. Assigning groups the day of field visit ensures that each group has enough participants to complete the exercises. This method may be best used when the visits take up lecture time, which also necessitates the use of sites closer to the classroom.

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