Pedestrian Facilities: Planning and Conceptual Design for Accessibility and Safety (TE-32)

Course Outline

Module 1 (2.5 hours): Policies and Trends Affecting Pedestrians

- Instructor Introductions
- Course Agenda
- What are Complete Streets
  - California Policies
  - Grid Networks
  - Common Tradeoffs
- Vision Zero
  - Speed Management
- Future Trends
  - TNCs
  - Autonomous and Connected Vehicles
  - E-scooter and E-bike
- Interactive Discussion - Hot spot analysis and systematic extrapolation for pedestrian safety issues in Downtown Oakland
- How to Evaluate Complete Streets
  - Data
  - Metrics
  - Graphical Communication
  - Stakeholder Buy In and Ownership
- Questions

Module 2 (2.5 hours): Public Engagement and Corridor Design

- Active Transportation Program Elements
- Public Health Considerations
- Forecasting
- Innovative Outreach Tools
  - Interactive Web-mapping/ Crowdsourcing
  - Text-based Surveys
  - Walk/Bike Audits
  - Pop Up Events
  - Interim Design

TechTransfer | Institute of Transportation Studies | University of California, Berkeley
109 McLaughlin Hall, MC 1720, Berkeley, CA 94720-1720 TEL: 510.643.4393
www.techtransfer.berkeley.edu

- Funding Sources
- Corridor Design
  - Shared Use Paths
  - Shoulders
  - ADA Considerations
  - Driveways
  - Transit
  - Midblock Crossings
- Interactive Discussion - Taylor Street Complete Streets Study, San Francisco
- Questions

Module 3 (2.5 hours): Crosswalks and Intersection Design

- Uncontrolled and mid-block Crossings
  - Crosswalk Policies
  - Crosswalk Research
  - Crosswalk Design
- Intersections
  - Geometric Design
  - Crossing Treatments
  - Traffic Signals
  - School Access
- Roundabouts
- Interchanges
- Safety Analysis Approaches
  - Site Analysis
  - Systemic
- Questions

TechTransfer | Institute of Transportation Studies | University of California, Berkeley
109 McLaughlin Hall, MC 1720, Berkeley, CA 94720-1720 TEL: 510.643.4393
www.techtransfer.berkeley.edu