Session 1: Wed, Sep 6, 5-7PM
Instructor: Tech Transfer Staff & Instructors
- 5:00PM: Course Introduction & Overview
  - Course Materials
  - Canvas LMS Tutorial
  - Assistance from Tech Transfer Staff
- 5:30PM: California Traffic PE Exam Resources
  - Navigating http://bpelsg.ca.gov/
  - Test Preparation Strategies
- 6:00PM: Introduction of Instructors
- 6:30PM: Q&A

Session 2: Mon, Sep 11, 5-7PM
Instructor: Obaid Khan
- Traffic Modeling/Estimating Traffic Volumes
- Traffic Impact Analysis:
  - Trip Generation
  - Trip Distribution
  - Trip Assignments
  - Pass-By Trips
  - Diverted Trips

References:
- 2010 HCM, 5th Edition
- Caltrans HDM, 6th Edition
- ITE Transportation Planning Handbook, 3rd Edition

Session 3: Wed, Sep 13, 5-7PM
Instructor: Joy Bhattacharya
- Level of Service (LOS)/Capacity Analyses:
o Vehicle LOS
o Pedestrian LOS
o Bicycle LOS
o Transit LOS
• VMT vs LOS

Reference:
• 2010 HCM, 5th Edition

Session 4: Mon, Sep 18, 5-7PM
Instructor: Rafat Raie
• Parking Analysis:
  o Parking Generation
  o Parking Demand
  o Parking Studies
• Parking Facilities and Design:
  o Off-Street
  o On-Street
• Parking Regulation & Policies
• Shared Parking

References:
• Caltrans HDM, 6th Edition
• CAMUTCD 2014

Session 5: Wed, Sep 20, 5-7PM
Instructor: Crystal Killian
• Geometric Design of Roadway & Transportation Facilities
  o Vertical and Horizontal Alignments
  o Driveways
    • Design of Spacing
  o Intersections
    • Channelization Designs for Turning Movements
  o Roundabouts
  o Roadway Improvements
  o Interchanges

References:
• 2010 HCM, 5TH Edition
• CAMUTCD 2014
Session 6: Mon, Sep 25, 5-7PM
Instructor: Crystal Killian

- Engineering and Traffic Surveys
  - Speed-Zone Surveys
  - Traffic Engineering Assessments
  - Field Investigations of Roadway Conditions
- Traffic Collisions
  - Collision Diagrams
  - Collision Rates
  - Techniques for Analyzing Collisions
- Benefit/Cost Analysis
- Mid-Course Evaluation

References:
- CAMUTCD 2014

Session 7: Wed, Sep 27, 5-7PM
Instructor: Crystal Killian

- Safety and Traffic Control Devices
- Roadway Signing
  - Regulatory Sign Warrants and Placement
  - Warning Signs
  - Parking Signs
- Pavement Markings/Striping
- Temporary Traffic Controls

References:
- CAMUTCD 2014

Session 8: Mon, Oct 2, 5-7PM
Instructor: Obaid Khan

- Bicycle Facilities Design
  - Signing and Marking
  - Bicycle Facilities Improvements
- Pedestrian Facilities Design
  - Signing and Marking-
o ADA Compliance
● School Zones

References:
● Caltrans HDM, 6th Edition
● CAMUTCD 2014

Session 9: Wed, Oct 4, 5-7PM
Instructor: Joy Bhattacharya
● Traffic Signal Design:
  o Warrants
  o Features, Standards & Specifications
  o Layout
  o Modifying Signal Hardware
● Street/Roadway Lighting

References:
● CAMUTCD 2014

Session 10: Mon, Oct 9, 5-7PM
Instructor: Obaid Khan
● Traffic Calming
● Access Management
● Surface Transit Accommodations
● Cost-Benefit Evaluation

References:

Session 11: Wed, Oct 11, 5-7PM
Instructor: Joy Bhattacharya
● Traffic Signal Operations:
  o Timing/Phasing
  o Coordination
● Intelligent Transportation Systems

References:
● CAMUTCD 2014
Session 12: Mon, Oct 16, 5-7PM
Instructor: Tech Transfer Staff & Instructors

- Test-taking Strategies
  - Stress Management
  - Time Management
  - Resources: What to Bring
- Q&A
  - Joy Bhattacharya: 5:00-6:00PM
  - Obaid Khan: 5:30-6:30PM
  - Rafat Raie: 5:30-6:30PM
  - Crystal Killian: 6:00-7:00PM
- Final Course Evaluation (post-training)