Day 1  1:00 pm – 6:00 pm

Afternoon Session: 1:00 pm – 6:00 pm, including one 15 minute break

- Welcome and Introduction
  - Statement of need and demographics
  - Historical perspective
- Anatomy and Physiology of the Vestibular System
  - Peripheral
  - Central
- Understanding sensory integration of equilibrium
  - Vestibular Reflex systems
    - Vestibulo-ocular (VOR)
      - Corrective Saccades
      - Nystagmus Definitions and Videos
    - Vestibulo-colic (VCR)
    - Vestibulo-spinal (VSR)
- Central Vestibular Compensation: How and Why VRT works
- Common disorders causing dizziness, vertigo, and/or dysequilibrium
  - Benign Paroxysmal Positional Vertigo (BPPV)
  - Migraine
  - Psychiatric
  - Otologic
  - Trauma
  - Toxicity
  - Neurologic
  - Rheumatology/Autoimmune
  - Cervicogenic
  - Other
Day 2 8:15 am – 6:00 pm

Morning Session: 8:15 am – 12:00 pm, including one 15 minute break

- Disorders (continued)
- Concussion Basics
  - Functional Anatomy and Physiology
  - What is a concussion?
  - Structural vs. metabolic damage
  - Implication of concussions
- Cortical vs. Labyrinthine Concussion
  - Functional anatomy of the inner ear
  - Who is at risk for concussion?
  - Signs and symptoms of concussion and TBIs

Lunch 12:00 pm – 1:00 pm (on your own)

Afternoon Session: 1:00 pm – 6:00 pm, including one 15 minute break

- Cortical Assessment
  - Neuropsychology of concussion
  - Neurocognitive testing and management
  - Executive control assessment and management
  - Review of evidence based literature
- Evaluation & assessment protocols
  - Stabilized vs. Non-stabilized
  - Compensated vs. Non-compensated
  - Goals and plan of care
  - ICD-10 and CPT codes

Day 3 8:15 am – 6:00 pm

Morning Session: 8:15 am – 12:00 pm, including one 15 minute break

- Evaluation & assessment protocols (continued)
  - Clinical Pathways
    - Patient interview
    - Pertinent medical history
    - Selecting appropriate vestibular evaluation tests
  - Clinimetrics
  - Postural Stability
VOR Evaluation
- Bedside gaze assessment
- The Vestibular/Ocular-Motor Screening (VOMS)
- Head Thrust
- Dynamic Visual Acuity
- Optokinetic Test

Cervicogenic Considerations
- Vertebral artery
- Cervical dizziness

Manual Practice

Lunch 12:00 pm – 1:00 pm (on your own)

Afternoon Session: 1:00 pm – 6:00 pm, including one 15 minute break

- Evaluation & assessment protocols (continued)
  - Provoked Vertigo Tests
    - Motion Sensitivity Index
    - Dix-Hallpike
    - Lateral Body Positioning
- BPPV Treatment
  - Review of theories of BPPV
  - Demonstration of Canalith Repositioning Maneuvers (CRM)
    - Posterior Canal
    - Horizontal Canal
    - Anterior Canal
  - Manual practice hands-on - CRMs
    - Modified Canalith Repositioning (CRM Epley/Herdman style)
    - Semont Liberatory Maneuver (SLM)
    - Gans Repositioning Maneuver (GRM)
    - Appiani
    - Casani
    - Kurtzer Hybrid Maneuver
  - BPPV Treatment Considerations
    - Restrictions post BPPV treatment
    - Complications of treatment
    - Improving outcomes
- Diagnosis Based Strategies
- Theories of Adaptation, Habituation and Substitution
**Day 4  8:15 am – 12:45 pm**

Morning Session: 8:15 am – 12:45 pm, including one 15 minute break

- Evidence-based Clinical Pathways: Using VRT protocols and creating patient-centered therapy
  - Identification of functional impairment by categories
    - Oscillopsia
    - Vestibular Recruitment
    - Vestibular visual integration-vision/surface dependence
- Concussion Management
  - American Institute of Balance Vestibular-Cognitive Integration (AIB-VCI)
  - Interactive demonstrations
  - Score Interpretation
- Case Studies
- Summary and Conclusions

*Syllabus timeline is for general purposes only. Depending on interest of the class, depth of discussions, questions, demonstrations, and hands-on, timeline may be adjusted. All content, however, will be covered.*