

9-2014

## PT 679.02: Trends and Scholarly Activity - Neurological Rehabilitation and Vestibular Rehabilitation

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### Recommended Citation

Ostertag, Susan Ann, "PT 679.02: Trends and Scholarly Activity - Neurological Rehabilitation and Vestibular Rehabilitation" (2014).  
*Syllabi*. 2172.

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PT 679 Section 2 Fall 2014  
Contemporary Trends – Neurological Rehabilitation and Vestibular Rehabilitation

**Instructor:**

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Office Hours: Schedule by email

**Location:** SB018

**Time/date:** 10/17/14 through 12/16/14 meets Fridays 8:10-12:00

**Credit: 2 credit; Contact hours: 28 + Final Exam**

**Teaching Methods/Learning Experiences:** Complete assigned readings and other assignments regarding vestibular and neurological rehabilitation; participating in class discussions of research articles and case studies; participation in sessions demonstrating assessment and intervention techniques.

**Student Evaluation/Grading:** Students are expected to attend and actively participate in all class sessions. The course grade will be based on assignments (50%) and student participation in class discussions (50%). Participation in labs and discussions, as well as completing all assignments, is required to obtain credit for this course.

**Discussions in class require that you:**

1. Come prepared by completing the assigned reading before class.
2. Participate in the discussion by asking questions, answering questions, sharing thoughts or case examples.
3. Be respectful of everyone's opinion and experiences, questions and thoughts shared.

**Subject Based Assignments**

1. Cover reading assignments for the week/subject
2. Require you to be thoughtful, may include clinically relevant questions or facts
3. May be presented in electronic format through Moodle or in class

**Professional Development Assignment**

1. You will be required to complete one assignment outside of class that represents an opportunity for professional development at no cost to you, and a certificate of completion will be required for assignment credit. Examples of resources for this assignment include:
  - a. <http://www.litegait.com/webinars/cal.html>
  - b. [http://www.cdc.gov/concussion/headsup/online\\_training.html](http://www.cdc.gov/concussion/headsup/online_training.html)

**Reading:**

- References and/or articles for mandatory reading will be provided in class or via Moodle.
- Students may be required to perform research outside of class on an assigned subject and will be asked to provide the instructor and/or class with an electronic version of the article.
- Required Text:
  - O'Sullivan and Schmitz (2010) Improving Functional Outcomes in Physical Rehabilitation. FA Davis, Philadelphia PA
  - O'Sullivan and Schmitz (2014). Physical Rehabilitation, 5<sup>th</sup> or 6<sup>th</sup> Edition F.A. Davis, Morris, ME

**Other Resources/information:** Electronic versions of commonly used and/or recommended outcome measures, references, resources will be provided to students via Moodle or in class.

**Schedule:**

- **October 17** Introduction to course, syllabus, schedule and expectations
  - Class discussion: Clinical experiences, questions, goals for course
  - Lecture: Clinical Decision Making in Neurological Rehabilitation; Outcome Measures Discussion and Lab
  - Reading: Outcome Measures in Neurological Physical Therapy Part I and II
- **October 24** Vestibular Review and lab
  - Reading: Vestibular chapter in O’Sullivan Physical Rehabilitation (2014)
- **October 31** Guest speaker Brace Hayden; Advanced Vestibular
- **November 7** Guest speaker Brace Hayden; Advanced Vestibular
- **November 14**
  - SLP Guest Lecture: Role in neurological rehab, LSVT LOUD therapy
  - Dr. Jaclyn Carson: BIG therapy for Parkinson’s diagnosis
  - Reading: TBD
- **November 21** CVA and TBI
  - Constraint Induced Therapy
  - Body Weight Support
  - Functional Electrical Stimulation
  - Virtual Reality/Simulation
  - Readings: TBD
  - \*\*Professional Development Assignment DUE\*\*
- **December 5**
  - Cerebellar Ataxia, Coordination training lab
  - Reading: Ilg et al, 2009, Intensive Coordination Training article
  - Other: Class to determine (Ideas: Sensory Integration, Neurological Gait, NDT/PNF)
- **Final Exam** TBD

**Course Objectives:**

1. Student will demonstrate an understanding of current research articles and/or other resources describing evidence based assessment/interventions in the field of neurological rehabilitation and vestibular rehabilitations through discussions, assignments, and lab format.
2. Student will demonstrate the ability to take findings presented in research articles and apply them in the implementation of assessments and interventions for neurologically involved patients and patients with vestibular disorders through case studies, assignments, and/or labs.