

# Minnesota State University Moorhead

## SLHS 320: Hearing/Vestibular Disorders & Assessment

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The study of auditory/vestibular anatomy and physiology as well as the disorders of the auditory and vestibular system. Clinical measurement of the auditory and vestibular mechanisms. In class and assignment experience administering protocols for testing and screening the auditory pathway.

**B. COURSE EFFECTIVE DATES:** 02/02/2015 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Acoustics.
2. Anatomy & Physiology of Hearing/Vestibular Systems.
3. Pure tone testing equipment.
4. Case history.
5. Otoscopy.
6. Pure tone air and bone conduction.
7. Speech audiometry.
8. Masking.
9. Immittance testing.
10. Electrophysiological testing.
11. Testing Children.
12. Hearing Disorders.
13. Vestibular Disorders.
14. Screening.

#### **D. LEARNING OUTCOMES (General)**

1. Discuss in basic terms the outer-ear anatomy and its function.
2. Understand the anatomy and physiology of the middle and inner ears.
3. List a variety of common disorders and syndromes that may affect the outer, middle and inner ears.
4. Describe how these disorders are caused and treated and how they may manifest on a variety of audiometric tests.
5. Provide a general description of the complexities of the central auditory system and the difficulties of diagnosing disorders in the brain.
6. Describe the basics of the vestibular system.
7. 7) Describe and demonstrate knowledge and audiometric diagnostic and screening skills in pure tone audiometry, speech audiometry, tympanometry, otoacoustic emissions screening and otoscopy.
8. Describe the principles and procedures of a thorough audiological evaluation.
9. Record and interpret audiometric results and thus describe the appropriate referrals.
10. Demonstrate knowledge of masking rules and procedures.
11. Describe and discuss the principles and procedures for testing children.
12. Recall and describe the basic principles of electrophysiological testing.
13. Recall and describe a test battery to assess the vestibular system.
14. Describe the Auditory Processing Disorders test battery.

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted