

COURSE SYLLABUS
Southeast Missouri State University

Department of Communication Disorders

Course No. CD651

Title of Course Neurogenic Speech Disorders

New: 2004-05

I. Catalog Description and Credit Hours of Course:

A study of speech disorders resulting from progressive and non-progressive neurological lesions of the central and peripheral nervous systems. Emphasis is placed on etiology and neuropathology of different dysarthric syndromes, as well as on corresponding diagnostic and management options. (2).

II. Prerequisite(s): Regular Graduate standing or consent of instructor.

III. Purposes or Objectives of the Course:

The student will:

- A. Develop an understanding of neuroanatomical and neurophysiological bases for speech production (*III-B).
- B. Review the structures of the head and neck region relating to speech mechanisms (*III-B).
- C. Become familiar with age-related changes in the speech mechanisms (*III-B).
- D. Describe the various possible etiologies for neurogenic (motor) speech disorders (*III-C).
- E. Discuss contemporary instrumental and non-instrumental procedures for assessment of dysarthria (*III-D & III-F).
- F. Integrate background, medical & assessment data to form appropriate prognosis rationale for intervention (*III-D).
- G. Identify different treatment/management options and strategies with appropriate rationale for various dysarthrias (*III-D & III-F).
- H. Evaluate treatment efficacy and make decisions regarding continuations of therapy, discharge and referrals (*III-D).
- I. Integrate professional/ethical and reimbursement issues in service delivery of neurogenic speech disorders (*III-G).

*[*denotes Knowledge and Skills Acquisition (KASA) standards from the American Speech-Language Hearing Association.]*

IV. Expectations of Students:

- A. Students are expected to participate during class discussions, take course examinations, and complete the course assignments on scheduled dates.
- B. Students will complete two, in-class written examinations on scheduled dates. No make-up/retake of examinations or assignments will be given and the content for each examination will include topics discussed in the preceding sessions (*V-A).
- C. Students will also complete the following three assignments (*V-A):
 1. Submit a brief review of the two dysarthria assessment protocols (*Dysarthria Examination Battery* and the *Frenchay Dysarthria Assessment*) to highlight the similarities and differences between the two protocols.

2. Determine and discuss the perceived speech characteristics from the videotaped speech samples of individuals with dysarthria. Identify the observed symptoms on the provided data sheet, and submit a one-page report to explain the relationship between the observed symptoms and the speech processes within, and between, the speech samples.
3. Give an oral presentation on treatment methods and related variables (stimuli, tasks, and procedures) on one of the assigned topics.

V. Course Content or Outline:

	No. of Class Hours
UNIT I	8
Introduction & Content Review	
Efferent Motor Systems: Speech	
Pyramidal & Extrapyramidal Systems	
Upper & Lower Motor Neurons	
Peripheral Nervous System & Structures: Speech Processes (Muscles & Cranial Nerve Innervation; Plexuses & Reflexes)	
Age-related Changes in Speech Mechanisms	
UNIT II	5
Etiologies for Progressive & Nonprogressive Neurological Diseases	
Related Medical Laboratory Tests	
EXAMINATION 1	1
UNIT III	8
Neurological Examination	
Speech Examination: Perceptual Methods	
Speech Examination: Instrumental Methods	
UNIT IV	8
Classification & Differential Diagnosis of Dysarthrias	
Prognostic Variables	
Therapy Approaches & Variables	
Student Oral Presentations	
Treatment Efficacy	
FINAL EXAMINATION	30

VI. Textbook(s) and/or Other Required Materials or Equipment:

Required Text

- A. Bhatnagar, S. and Andy, O. (2002). *Neuroscience for the Study of Communicative Disorders*. Baltimore, MD: Williams & Wilkins.

Other Selected Readings on Reserve

- A. Darley, F., Aronson, A. & Brown, J. (1975). *Motor Speech Disorders*. Philadelphia: W.B. Saunders.

- B. Drummond, S. (1993). *Dysarthria Examination Battery*. Tucson: Psychological Corporation..
- C. Duffy, J. (1995). *Motor Speech Disorders*. St. Louis: Mosby.
- D. Dworkin, J. (1991). *Motor Speech Disorders: A Treatment Guide*. St. Louis: Mosby.
- E. Enderby, P. (1983). *Frenchay Dysarthria Assessment*.
- F. Freed, D. (2000). *Motor Speech Disorders*. San Diego: Singular Publishing Group, Inc.
- G. Hargrove, P. & McGarr, N. (1993). *Prosody Management of Communication Disorders*. San Diego, CA: Singular Publishing Group, Inc.
- H. Langley, M. & Lombardino, L. (1991). *Neurodevelopmental Strategies for Managing Communication Disorders in Children with Severe Motor Dysfunction*. Austin, TX: Pro-Ed.
- I. McNeil, M. (1997). *Clinical Management of Sensorimotor Speech Disorders*. New York: Thieme.
- J. Moore, C., Yorkston, K., & Beukelman, D. (Eds.) (1991). *Dysarthria & Apraxia of Speech: Perspectives on Management*. Baltimore: Paul H. Brookes.
- K. Murdock, B. (1990). *Acquired Speech & Language Disorders*. New York: Chapman & Hall.
- L. Vogel, D. & Cannito, M. (1991). *Treating Disordered Speech Motor Control*. Austin, TX: Pro-Ed.
- M. Yorkston, K., Beukelman, D. & Bell, S. (1988; 1999). *Clinical Management of Dysarthric Speakers*. Boston: College-Hill.

VII. Basis for Student Evaluation:

The weight of evaluation criteria may vary at the discretion of the instructor and will be indicated at the beginning of each semester.

Student performance on two in-class written examinations will constitute 50% of the grade for the course. Student performance on the three assignments will constitute the remaining 50% of the course grade.

Violations of academic honesty represent a serious breach of discipline. Engaging or knowingly assisting in academic dishonesty, including plagiarism, cheating, and those acts which would deceive, cheat, or defraud so as to promote or enhance one's scholastic record may be considered grounds for disciplinary action. Please refer to <http://www6.semo.edu/judaffairs/code.html> for the complete policy on Academic Honesty at Southeast Missouri State University.

Approvals:

Department: 12-03-2004
College Council: 02-02-2005
Graduate Council: