

Speech, Language, and Hearing Sciences 544
Adult Language Disorders: Aphasia & Right Hemisphere Disorders
Fall 2008

Instructor: Pélagie M. Beeson, Ph.D.
Office: Speech, Language, & Hearing Sciences Room 308b
Phone: 621-9879
email: pelagie@email.arizona.edu
Office hours: Tuesdays 9:30 – 10:30 am or by appointment
Class Time: 8:00 – 9:15 Tuesdays and Thursdays
Room: Speech, Language, & Hearing Sciences Room 409

Purpose: The purpose of this course is to provide the requisite knowledge for understanding, assessing, and treating language impairments associated with focal lesions to the left or right hemisphere. Specifically, students will learn about the neural substrates for language; language assessment principles and procedures; and the nature and treatment of aphasia, alexia, and agraphia, and right hemisphere disorders.

Format: Students will learn by studying assigned readings, through lectures, and videotaped examples in the classroom. In addition, students will read, abstract, and discuss information about specific treatment approaches for aphasia. Outside activities will also include review and practice in the administration of standardized tests for adult language.

Learner Objectives

By the end of this class, students should be able to:

- identify the neural substrates of spoken and written language processes.
- describe the cognitive processes that support communication.
- characterize the behavioral consequences of impairment to cognitive processes that support language and communication.
- describe classic aphasia syndromes and their associated lesion location.
- classify patients on the basis of observation and the results of behavioral testing.
- describe the behavioral consequences of right hemisphere damage.
- specify standardized measures for assessment of acquired impairment of language and communication.
- demonstrate knowledge of treatment approaches for specific aspects of language and communication impairment.
- demonstrate principles and techniques for maximizing communication in individuals with left or right hemisphere damage.

Outcome Measures

Achievement of 70% or better on examinations. Performance below 70% will require remedial work to demonstrate acquisition of knowledge.

Course Readings: Selected readings available on course website <http://D2L.arizona.edu>
Recommended (not required) Text:

Language Intervention Strategies in Aphasia and Related Neurogenic Communication Disorders, Fifth Edition. Roberta Chapey, Editor. Philadelphia: Wolters Kluwer/Lippincott, Williams, & Wilkens, 2008.

Grading:	Students can earn a total of 500 points for this course.	
	Exam 1 = 75 points	75
	Aphasia Assessment Worksheet = 25 points	25
	Exam 2 = 100 points	100
	Exam 3 = 125 points	125
	Aphasia Treatment Abstracts = 2 at 25 points each	50
	Right Hemisphere Assessment Worksheet = 25 points	25
	Exam 4 (final) = 60 points	<u>100</u>
		500

Letter grades will be computed as follows:

450 – 500 = 90% or greater = A

400 – 449 = 80% or greater = B

350 – 399 = 70% or greater = C

300 – 349 = 60% or greater = D

<300 = less than 60% = E

Scores will not be rounded up.

Classroom Etiquette: Please turn off all cell phones and pagers during class. **Do not leave and re-enter the classroom during lectures** as it is distracting to students and lecturers.

Notice

Any student who does not accept or understand the contents and terms of this syllabus or who has a disability or condition that compromises completion of course requirements must notify the instructor within the first week of receiving the syllabus.

Code of Academic Integrity

Integrity is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students engaging in academic dishonesty diminish their education and bring discredit to the academic community. Students shall not violate the Code of Academic Integrity and shall avoid situations likely to compromise academic integrity. Students shall observe the provisions of the Code whether or not faculty members establish special rules of academic integrity for particular classes. Failure of faculty to prevent cheating does not excuse students from compliance with the Code. Any attempt to commit an act prohibited by these rules will be subject to sanctions to the same extent as completed acts. The procedures for reviewing a suspected violation are found in the complete Code of Academic Integrity available in the Dean of Students Office, Old Main, Room 203, or can be found at the website <http://dos.web.arizona.edu/uapolicies/cai1.html>.

SPH 544 Adult Language Disorders
Fall 2008 – Tuesdays and Thursdays 8:00 – 9:15 a.m.

	Class Date	Topic	Reading
1	Tuesday August 26	Course Overview and Introduction	
2	Thursday August 28	Neuroanatomy	Nolte (2002)
3	Tuesday September 2	Neuroanatomy	Nolte (2002)
4	Thursday September 4	Neuroanatomy & Brain Imaging	Davis (2000)
5	Tuesday September 9	Blood Supply to the Brain & Neuropathology	Davis (2000)
6	Thursday September 11	Review: Neural Substrates for Language	
7	Tuesday September 16	Exam 1 (75 points) – Neuroanatomy & Neural Substrates for Language	
8	Thursday September 18	The Nature of Aphasia & Aphasia Syndromes	Beeson & Rapcsak (2006)
9	Tuesday September 23	The Nature of Aphasia & Aphasia Syndromes	Damasio (2008)*
10	Thursday September 25	Aphasia Syndromes and related motor impairments	Duffy (2005) Ochipa (2006)
11	Tuesday September 30	Acquired Alexia and Agraphia Syndromes	Beeson & Rapcsak (2009 – in press)
12	Thursday October 2	Progressive Aphasia	Duffy & McNeil (2008)*
13	Tuesday October 7	Assessment of Aphasia	Review Aphasia Tests
14	Thursday October 9	Assessment of Aphasia (Turn in Worksheet on Aphasia Tests)	Review Aphasia Tests
15	Tuesday October 14	Historical Aspects of the Study of Aphasia	Benson & Ardila (1996)
16	Thursday October 16	Exam 2 (100 points) – The Nature of Aphasia	
17	Tuesday October 21	Nature and Treatment of Lexical Retrieval Impairments	Raymer & Gonzalez Rothi (2008)*
18	Thursday October 23	Nature and Treatment of Lexical Retrieval Impairments	Nickels (2002)
19	Tuesday October 28	Nature and Treatment of Impairments of Speech Production (treatments for apraxia of speech)	Select treatment articles to review
20	Thursday October 30	Nature and Treatment of Written Language Impairments	Beeson & Henry (2008)*

21	Tuesday November 4	Nature and Treatment of Written Language Impairments	Beeson & Henry (2008)*
22	Thursday November 6	Nature and Treatment of Impairments of Sentence Comprehension & Production	Mitchum & Berndt (2008)*
23	Tuesday November 11	No Class – Veteran’s Day	
24	Thursday November 13	Other Treatment Approaches for Aphasia	Helm-Estabrooks & Albert (2004)
25	Tuesday November 18	Review treatment articles in class (Turn in article reviews)	Aphasia treatment article reviews
26	Thursday November 20	Exam 3 (125 points) – Treatment of Aphasia, Alexia, and Agraphia	
27	Tuesday November 25	The Dual Brain: Hemispheric specialization and coordination	Beeman & Chiarello (1998)
--	Thursday November 27	Thanksgiving – No Class	
28	Tuesday December 2	Right Hemisphere Syndrome	Myers & Blake (2008)*
29	Thursday December 4	Right Hemisphere: Assessment	Review RHD tests
30	Tuesday December 9	Right Hemisphere: Treatment (Turn in Worksheet on RHD Assessment)	Myers & Blake (2008)*
	Thursday December 18 8:00 – 10:00	Exam 4 – Final (100 points) – The Nature and Treatment of Right Hemisphere Disorders	

* in book edited by Chapey (2008)

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Recommended and Optional Readings: Articles will be posted on D2L

Part 1: Neuroanatomy and Neural Substrates of Language

1. Nolte, J. (2002). *The human brain: An introduction to its functional anatomy* (5th ed., pp. 53-78). St. Louis: Mosby.
Chapter 3: Gross anatomy and general organization of the central nervous system.
2. Davis, G.A. (2000). *Aphasiology: Disorders and clinical practice* (pp. 20-42). Boston: Allyn and Bacon.
Chapter 2: Causes of aphasia.
3. Beeson, P.M. & Holland, A.L. (2007). Aphasia groups in a university setting. In R.Elman (Ed), *Group treatment of neurogenic communication disorders: The expert clinician's approach, Second Edition*. San Diego, CA: Plural Publishing. (optional)

Part 2: The Nature of Aphasia

1. Beeson, P.M. & Rapcsak, S.Z. (2006). The aphasias. In P.J. Snyder and P.D. Nussbaum (Eds.), *Clinical neuropsychology: A pocket handbook for assessment, Second Edition* (pp. 436-459). Washington, D.C.: American Psychological Association.
2. Damasio, H. (2008) Neural basis of language disorders. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fifth Edition* (pp. 20-41). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.
3. Duffy, J.R. (2005). *Motor speech disorders, Second edition*. St. Louis, MO: Elsevier, Mosby.
Chapter 1: Defining, understanding, and categorizing motor speech disorders.
4. Ochipa, C. (2006). Limb apraxia. In J. Noseworthy (Ed), *Neurological therapeutics: Principles and practice, Second edition* (pp. 3105-3107). London: Martin Dunitz.
5. Beeson, P.M. & Rapcsak, S.Z. (in press). Neuropsychological assessment and treatment of writing disorders. In J. Gurd, Kischka, and J. Marshall (Eds.) *Oxford Handbook of Clinical Neuropsychology, Second Edition*. Oxford, UK: Oxford University Press.
6. Benson, D.F. & Ardila, A. (1996). *Aphasia: A clinical perspective* (pp. 10-28). New York: Oxford University Press.
Chapter 2: Historical background.

Part 3: Treatment of Aphasia, Alexia, and Agraphia

1. Robey, R.R. (1998). A meta-analysis of clinical outcomes in the treatment of aphasia. *Journal of Speech and Hearing Research*, 41, 172-187. (optional)
2. Raymer, A.M. & Rothi, L.G. (2008). Impairments of word comprehension and production. In R. Chapey (Ed.). *Language intervention strategies in adult*

- aphasia, Fifth Edition* (pp. 607-631). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.
3. Nickels, L. (2002). Therapy for naming disorders: Revisiting, revising, and reviewing. *Aphasiology*, 16, 935-979.
 4. Beeson, P.M. (2004). Remediation of written language. *Topics in Stroke Rehabilitation*, 11, 37-48. (optional)
 5. Beeson, P.M. & Henry, M.L. (2008). Comprehension and production of written words. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fifth Edition* (pp. 654-688). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.
 6. Mitchum, C. & Berndt, R. (2008). Comprehension and production of sentences. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fifth Edition* (pp. 632-653). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.
 7. Helm-Estabrooks, N. & Albert, M. (2004). *Manual of aphasia and aphasia therapy, Second edition*.
Chapter 16: Melodic Intonation Therapy
Chapter 18: Visual Action Therapy

Part 4: The Nature and Treatment of Right Hemisphere Disorders

1. Beeman, M.J. & Chiarello, C. (1998). Complementary right- and left-hemisphere language comprehension. *Current directions in psychological science*, 7, 2-8.
2. Myers, P.S. & Blake, M.L. (2008). Communication disorders associated with right hemisphere disorders. In R. Chapey (Ed.). *Language intervention strategies in adult aphasia, Fifth Edition* (pp. 963-987). Baltimore, MD: Wolters Kluwer/Lippincott, Williams & Wilkins.