

King Saud University
College of Applied Medical Sciences
Department of Rehabilitation Sciences
Hearing & Speech Pathology Program

Course Syllabus

COURSE TITLE: Neurology (RHS-344)
CREDITS: 2 **PRE-REQUISITES:**
MEETINGS: Tuesdays 2:00 pm – 3:50 pm
LOCATION: B 005

INSTRUCTOR: **Dr. Mohammed F. Safi, PhD, CCC-SLP, Assistant Professor**
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Office: 2158
Office hours: By appointment

Course Description

This course is planned for advanced undergraduate students in the Speech Language Pathology/Audiology program. Course content serves as an introduction to neuroscience as it relates to speech, language, and hearing. The focus of this course is on the role of the central nervous system in different aspects of human communication. The study of brain anatomy and physiology is approached from the perspective of how neurological systems support speech, language, and hearing and how breakdowns in these systems disrupt aspects of communication.

Learning Goals

- Students will identify and describe how the human brain is structured from the cellular to systems levels.
- Students will identify and describe how regions of the brain support different communication functions.
- Students will describe how communication can be differentially disrupted with damage or abnormal development of the related brain systems.

Required Textbook

Course readings are intended to enrich the student's knowledge in the field of neurology by reinforcing and supplementing powerpoint lectures. One textbook is required:

LaPointe, L. L., Murdoch, B. E., & Stierwalt, J. A. G. (2010). Brain-based communication disorders. San Diego: Plural Pub.

Note: Students are responsible for content covered in the assigned readings and all of the material covered in class.

Evaluation and Assessment

1. Weekly quizzes
2. Major Exams
3. Participation and engagement in the class room
4. Assignment:
10-minute power point presentation on a neurology topic of your choice with the approval of the instructor. Scoring rubric is available.

Grading

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|---------------------------------------|------------|
| Quizzes | 5 |
| Participation & engagement | 5 |
| Assignment | 10 |
| Exam 1 | 20 |
| Exam 2 | 20 |
| Final Exam | 40 |
| Total | 100 |

TOPIC OUTLINE/CALENDAR

| Wk | Wk of | Topic | Required reading |
|----------|---------------|--|---|
| 1 | 18-Sep | Syllabus Course Information Assignment Tips for this course Introduction | |
| 2 | 25-Sep | Neurological Basis | Ch. 1. The Neurological Basis of Speech and Language |
| 3 | 2-Oct | Neurological Basis | Ch. 1. The Neurological Basis of Speech and Language |
| 4 | 9-Oct | Neurological Basis *Presentation Topic Discussion* | Ch. 1. The Neurological Basis of Speech and Language |
| 5 | 16-Oct | Neurological Causes of Communication Disorders | Ch. 3. Neurological Causes of Communication Disorders |
| 6 | 23-Oct | First Exam | Labeling, multiple choice, fill in the blank, short answer |
| 7 | 30-Oct | Aphasia *Assigning and selecting presentation topics* | Ch. 4. Aphasia |
| 8 | 6-Nov | Traumatic Brain Injury Assigning and selecting presentation topics | Ch. 5. Nonfocal Brain Damage: Communication Disorders and a World of Other Problems |
| 9 | 13-Nov | Mid Semester Vacation | Work on your presentations |

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| 10 | 20-Nov | Right Hemisphere Syndrome | Ch. 6. Right Hemisphere Syndrome |
| 11 | 27-Nov | Motor Speech Disorders in Adults | Ch. 8. Motor Speech Disorders in Adults: Dysarthrias and Apraxia of Speech |
| 12 | 4-Dec | Second Exam | Labeling, multiple choice, fill in the blank, short answer |
| 13 | 11-Dec | Motor Speech Disorders in Childhood *Prepared presentations review* | Ch. 9. Motor Speech Disorders in Childhood |
| 14 | 18-Dec | Neurogenic Swallowing Disorders *Prepared presentations review* | Ch. 10. Acquired Neurologic Swallowing Disorders in Children and Adults |
| 15 | 25-Dec | Principles of Assessment | Ch. 11. Principles of Assessment of Child and Adult Neurologic Speech-Language Disorders |
| 16 | 1-Jan | Principles of Treatment | Ch. 12, Principles of Treatment for Neurologic Communication Disorders |
| 17 | 8-Jan | Presentations | |
| 18 | TBD | Final Exam | Labeling, multiple choice, fill in the blank, short answer |

Student Responsibilities

1. Read assigned reading materials for that week before that class meeting
2. Take notes while preparing for the class. Bring your notes to the class every meeting.
3. Take more notes in the class.
4. Review your notes daily. Keep your notes organized in a binder.
5. Ask questions in class.

Additional Resources

ASHA. American Speech Language Hearing Association: www.asha.org

ANCDS. Academy of Neurologic Communication Disorders and Sciences:
<http://www.ancds.org/>

BIAA. Brain Injury Association of America: <http://www.biausa.org/>

SfN. Society for Neuroscience: <https://www.sfn.org/>

Neuroscientifically Challenged.
https://www.youtube.com/playlist?list=PLNZqyJnsvdMqFNFyHvMFrFnIXLosnwwB_

Ligermorph. <https://www.youtube.com/playlist?list=PLA3769071B1361BEC>