

**Introduction to Audiologic Assessment and Rehabilitation  
(SPLH 668)  
Fall 2009 Syllabus**

**Class Meetings:**

Lecture: Tuesdays & Thursdays, 8:00-9:15; 2092 Dole  
Labs: Fridays 1:00 – 1:50, Location Varies (see lab schedule)  
Fridays 2:00 – 2:50, Location Varies (see lab schedule)

**Instructors:**

Instructor: Tiffany A. Johnson, Ph.D. CCC-A; [tiffany-johnson@ku.edu](mailto:tiffany-johnson@ku.edu); 864-4467  
Office Hours: Thursdays, 9:30-11:30, Dole 3017  
Additional times available by appointment

GTA: Marie Willis, M.S.; [mlwil76@hotmail.com](mailto:mlwil76@hotmail.com); 864-0630 (SPLH Dept. Phone)  
Office Hours: TBA, Dole 3025

**Prerequisite:**

SPLH 663 Principles of Hearing Science.

**Course Description**

Introduction to methods for assessing and treating hearing disorders in adults and children, as well as conditions that result in hearing loss. Course includes clinical observation and hands-on experience with clinical techniques.

**Course Objectives**

During this course, students will

1. Develop a basic familiarity with diagnostic procedures used to determine the extent and/or etiology of hearing loss.
2. Become familiar with disorders of the auditory system that cause hearing loss.
3. Understand the communicative, emotional, social, educational, and economic impact of hearing loss across the lifespan.
4. Become familiar with intervention techniques that may be used to reduce the negative impact of hearing loss across the lifespan.
5. Understand the role of speech-language pathologists and audiologists in assessing hearing handicap and implementing intervention techniques.

**Course Materials**

*Required Readings:*

1. Martin, F.N., and Clark, J.G. (2009). *Introduction to Audiology (10<sup>th</sup> Edition)*. Boston: Allyn & Bacon.
2. Tye-Murray, N. (2009). *Foundations of Aural Rehabilitation: Children, Adults, and Their Family Members (3<sup>rd</sup> Edition)* Clifton Park, NY: Delmar.
3. Additional selected readings will be posted on Blackboard and/or will be available via the internet. See the supplemental readings list and the schedule for more information.

*On-line Resources:*

1. Blackboard course website at <http://courseware.ku.edu>
  - Blackboard will be used extensively in this course. Students should check the course site frequently for announcements. In addition, all email from the instructor to students will be sent through Blackboard. Please be sure to check the email account associated with your Blackboard account. See the instructor if you have any questions about or problems with Blackboard.
  - When possible, lecture notes will be posted to Blackboard no later than 5 p.m. on the day before class. If this cannot be accomplished, a note to that effect will be posted and handouts will be brought to class.

**Requirements**

1. Online Quizzes (90 points, ~15% of Final Grade)
  - Twelve quizzes will be administered through Blackboard (see schedule for dates). These quizzes will provide students with sample questions that may be asked on exams, will help students identify key concepts covered in readings and lecture, and will provide extra practice applying course concepts.
  - The first quiz (**Hearing Science Review Quiz**) will cover concepts from SPLH 663 (a prerequisite for this course). Students will be required to retake this quiz until they have scored 90% or better. Students who do not take this quiz will receive an **incomplete** for the course.
  - **Quizzes 1 through 11** will include questions from the assigned readings, lectures, class discussions, and lab discussions. **The 2 quizzes with the lowest scores (quizzes 1 through 11 only) will be dropped** when computing your final course grade.
  - Quizzes will be posted by NOON on Thursdays and must be completed by noon on the following Monday. Students should attempt to answer each question without referring to class notes or the textbook, then verify their answers before submitting the exercise. Once a quiz is started, it must be completed in the same session.
  - If you have a computer problem that prevents you from completing the quiz, email Dr. Johnson at the time the problem occurs. If the computer problem is considered valid and verified by the time stamp on the email, you may be permitted to take the quiz after the deadline.
  - *Beyond valid computer problems, there will be no opportunities to make-up or postpone weekly quizzes. Quizzes must represent a student's own independent work.*
2. Assignments (60 points, ~10% of Final Grade)
  - Three assignments will be completed over the course of the semester. The details about each individual assignment will be provided in class or lab well before each assignment is due. Due dates are indicated on the class schedule.
3. Lecture Attendance
  - Although attendance will not be taken in lecture, due to the large volume of material that will be covered, students are expected to attend each scheduled class period. If absent from lectures, the individual student is responsible for getting materials and information provided during the class.

4. Lab Attendance/Assignments (70 points, ~11% of Final Grade)
  - Lab sections will provide students with an opportunity to gain hands-on experience with the materials and techniques discussed in lecture. They will also provide students with additional opportunities to discuss and ask questions regarding materials covered in lecture. Attendance at each lab and/or performance on in-lab assignments is worth a total of 65 points.
  - Absences may be excused if you contact the instructor **before** the missed class and offer a **valid reason** for missing lab. An example of a valid reason is illness that can be documented with a physician's note.
5. Exams (400 points, ~65% of Final Grade)
  - Four unit exams are scheduled. Although each exam will emphasize the material covered in each unit, many concepts covered early in the class will be revisited throughout the course; therefore, exams 2-4 may contain information that is cumulative in nature. The exams will include a mix of multiple-choice, short-answer, and essay-type questions. Questions will include material covered in the readings, class lectures and discussions, and in lab sections.

### **Audio or Video Taping Lecture**

Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. On request, the instructor will usually grant permission for students to audio tape lectures, on the condition that these audio tapes are only used as a study aid by the individual making the recording. Unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or transmitted to any other person, whether or not that individual is enrolled in the course.

### **Studying**

Significant learning may start in the classroom but it should continue to grow outside the classroom when students become actively engaged with the material. In this course, you will be actively engaged with the material outside of class through completion of readings, quizzes, and study guides. As stated in the Faculty Senate Rules and Regulations (5.1.1) "One semester hour means course work normally represented by an hour of class instruction and two hours of study a week for one semester, or an equivalent amount of work. The concept may vary according to the level at which instruction is offered."

### **Academic Misconduct**

Students are expected to observe all University guidelines pertaining to academic misconduct. As stated in the University Senate Rules and Regulations (2.6.1):

"Academic misconduct by a student shall include, but not be limited to, disruption of classes; threatening an instructor or fellow student in an academic setting; giving or receiving of unauthorized aid on examinations or in the preparation of notebooks, themes, reports or other assignments; knowingly misrepresenting the source of any academic work; unauthorized changing of grades; unauthorized use of University approvals or forging of signatures; falsification of research results; plagiarizing of another's work; violation of regulations or ethical codes for treatment of human and animal subjects; or otherwise acting dishonestly in research." Academic misconduct will not be tolerated and will be dealt with in accordance with all University rules and regulations.

### **Non-Academic Misconduct**

The scope and content of the material included in this course are defined by the instructor in consultation with the responsible academic unit. While the orderly exchange of ideas, including questions and discussions prompted by lectures, discussion sessions and laboratories, is viewed as a normal part of the educational environment, the instructor has the right to limit the scope and duration of these interactions. Students who engage in disruptive behavior, including persistent refusal to observe boundaries defined by the instructor regarding inappropriate talking, discussions, and questions in the classroom or laboratory may be subject to discipline for non-academic misconduct for disruption of teaching or academic misconduct, as defined in the Code of Student Rights and Responsibilities (CSRR), Article 22, Section C, and the University Senate Rules and Regulations, Section 2.4.6. Article 22 of CSRR also defines potential sanctions for these types of infractions.

### **Accommodations**

The staff of Services for Students with Disabilities (SSD), 135 Strong, 785-864-2620 (v/tty), coordinates accommodations and services for KU courses. If you have a disability for which you may request accommodation in KU classes and have not contacted them, please do so as soon as possible. Please also notify the instructor in writing (e-mail is acceptable) within one week of receiving this syllabus so that appropriate accommodations for this course can be discussed.

If a scheduled exam, lab exercise, or quiz is in conflict with a mandated religious observance, you must notify the instructor in writing (e-mail is acceptable) within one week of receiving this syllabus so that an alternative arrangement can be made in advance of the scheduled requirement.

### **Student Portfolios**

For any graduate SLP student who wishes to use this course for their portfolio, assignments 1 through 3 can be included in the portfolio. The exams, quizzes, and lab assignments cannot be included in the portfolio. Please see Dr. Johnson if you have any questions regarding including course materials in your portfolio.

## Grading

The University has prescribed definitions for grades. The University Senate Rules and Regulations define grades in the following way:

- 1..1.2 The grade of A will be reported for achievement of outstanding quality
- 1..1.3 The grade of B will be reported for achievement of high quality
- 1..1.4 The grade of C will be reported for achievement of acceptable quality
- 1..1.5 The grade of D will be reported for achievement that is minimally passing but at less than acceptable quality

In this course, quality of achievement will be evaluated through online quizzes, assignments, lab attendance, and exams. Grades will be based on the following:

Exam 1 = 100 points  
Exam 2 = 100 points  
Exam 3 = 100 points  
Exam 4 = 100 points  
Quizzes = 90 points (eleven 10-point quizzes, drop the lowest 2)  
Assignment 1 = 15 points  
Assignment 2 = 15 points  
Assignment 3 = 30 points  
Lab Attendance = 70 points

Total points = 620

The plus/minus system will be used in this class. Final grades for the course will be based on the following (percents based on points earned out of a total of 620 available points):

|           |    |
|-----------|----|
| 94 – 100% | A  |
| 90 – 93%  | A- |
| 88 – 89%  | B+ |
| 84 – 87%  | B  |
| 80 – 83%  | B- |
| 78 – 79%  | C+ |
| 74 – 77%  | C  |
| 70 – 73%  | C- |
| 68 – 69%  | D+ |
| 64 – 67%  | D  |
| 60 – 63%  | D- |
| < 60%     | F  |

If your level of achievement during this course is falling short of your goal, you are **strongly encouraged** to consult with the instructor during office hours or by appointment to improve the quality of your learning of course material.

| SPLH 668: Lecture, Lab and Reading Schedule (p. 1)       |  |   |
|--|--|---|
| Session  | Topic  | Readings  |
| TH 8/20  | Introductions and Syllabus Review<br>What is Audiology?<br><i>Brief</i> Anatomy and Physiology Review<br><b>Hearing Science Review Quiz posted by NOON</b> | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 1</li> </ul>  |
| F 8/21   | <ul style="list-style-type: none"> <li>LAB 1: Review of Acoustics</li> </ul>   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 3</li> </ul>  |
| *****Diagnostic Audiology and Auditory Disorders*****    |  |   |
| <b>HEARING SCIENCE REVIEW QUIZ DUE NOON, MONDAY 8/24</b> |  |   |
| TU 8/25  | Sound Pathways: Air vs. Bone Conduction<br>Screenings vs. Evaluations<br>Case Histories  | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 2</li> <li>Stach: pp. 163-173 (Bb)</li> </ul>             |
| TH 8/27  | Otoscopy<br>Behavioral Tests: Pure Tone Audiometry & the Audiogram I<br><b>Quiz 1 posted by NOON</b>   | <ul style="list-style-type: none"> <li>M &amp; C: pp. 243-249</li> <li>M &amp; C: Ch. 4 (pp. 77-104)</li> </ul> |
| F 8/28   | LAB 2: Case History, Otoscopy, & Pure Tone Audiometry I  |   |
| <b>QUIZ 1 DUE NOON, MONDAY 8/31</b>                      |  |   |
| TU 9/01  | Behavioral Tests: Pure Tone Audiometry and the Audiogram II<br>Masking   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 4 (pp. 104-125)</li> </ul>                                |
| TH 9/03  | Masking (cont.)<br><b>Quiz 2 posted by NOON</b>  |   |
| F 9/04   | LAB 3 : Otoscopy & Pure Tone Audiometry II   |   |
| <b>QUIZ 2 DUE NOON, MONDAY 9/7</b>                       |  |   |
| TU 9/08  | Behavioral Tests: Speech Audiometry I  | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 5</li> </ul>  |
| TH 9/10  | Behavioral Tests: Speech Audiometry II<br><b>Quiz 3 posted by NOON</b>   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 5 (cont.)</li> </ul>                                      |
| F 9/11/08  | LAB 4: Speech Audiometry   |   |

| SPLH 668: Lecture, Lab and Reading Schedule (p. 2) |   |   |
|--|---|---|
| Session  | Topic   | Readings  |
| <b>QUIZ 3 DUE NOON, MONDAY 9/14</b>                |   |   |
| TU 9/15  | <b>EXAM 1</b>   |   |
| TH 9/17  | Objective Tests: Tympanometry & Acoustic Reflexes   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 6 (pp. 165-182)</li> </ul>                  |
| F 9/18   | LAB 5: Tympanometry & Acoustic Reflexes   |   |
| TU 9/22  | Objective Tests: Otoacoustic Emissions & Auditory Evoked Potentials<br><b>Begin Observing Hearing Evaluations (Assignment #1)</b> | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 6 (pp. 182-205)</li> </ul>                  |
| TH 9/24  | Pediatric Audiology: Behavioral Testing with the Young Child<br><b>Quiz 4 posted by NOON</b>                                      | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 7</li> </ul>                                |
| F 9/25   | LAB 6: OAE and ABR  |   |
| <b>QUIZ 4 DUE NOON, MONDAY 9/28</b>                |   |   |
| TU 9/29  | Interpretation of the Standard Battery & Counseling   | <ul style="list-style-type: none"> <li><u>Margolis- In One Ear &amp; Out the Other</u></li> </ul> |
| TH 10/01   | Disorders of the Auditory System (External & Middle Ear)<br><b>Quiz 5 posted by NOON</b>  | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 8 &amp; 9</li> </ul>                        |
| F 10/02  | LAB 7: Hearing Screening  |   |
| <b>QUIZ 5 DUE NOON, MONDAY 10/5</b>                |   |   |
| TU 10/06   | Disorders of the Auditory System (Inner Ear, Retrocochlear)   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 10 &amp; Ch. 11 (pp. 340-355)</li> </ul>    |
| TH 10/08   | Nonorganic Hearing Loss<br><b>Quiz 6 posted by NOON</b>   | <ul style="list-style-type: none"> <li>M &amp; C: Ch. 12</li> </ul>                               |
| F 10/09  | LAB 8: TBD  |   |
| <b>QUIZ 6 DUE NOON, MONDAY 10/12</b>               |   |   |

| SPLH 668: Lecture, Lab and Reading Schedule (p. 3) |  |   |
|--|--|---|
| Session  | Topic  | Readings  |
| TU 10/13   | <b>EXAM 2</b>  |   |
| TH 10/15   | <b>NO CLASS – FALL BREAK</b>   |   |
| F 10/16  | <b>NO LABS – FALL BREAK</b>  |   |
| <b>*****Aural Rehabilitation/Habilitation*****</b> |  |   |
| TU 10/20   | What is aural rehabilitation? The role of SLPs & AUDs in AR<br><br>Improving Audibility of Speech: Hearing Aids, Cochlear Implants, & Assistive Listening Devices<br><br><b>Experience Hearing Loss (Assignment #2) assigned</b> | <ul style="list-style-type: none"> <li>• T-M: Ch. 1</li> <li>• T-M: Ch. 3</li> </ul>                      |
| TH 10/22   | Improving Audibility of Speech: Hearing Aids, Cochlear Implants, & Assistive Listening Devices ( <i>cont.</i> )<br><br><b>Quiz 7 posted by NOON</b>  | <ul style="list-style-type: none"> <li>• T-M: Ch. 3 (cont.)</li> <li>• Moore &amp; Teagle (Bb)</li> </ul> |
| F 10/23  | LAB 9: Speech Acoustics and Hearing Loss<br><br><b>Begin Completing Hearing Evaluations (Assignment #3)</b>  |   |
| <b>QUIZ 7 DUE NOON, MONDAY 10/26</b>               |  |   |
| TU 10/27   | Improving Audibility of Speech: Hearing Aids, Cochlear Implants, & Assistive Listening Devices ( <i>cont.</i> )  | <ul style="list-style-type: none"> <li>• T-M: Ch. 3 (cont.)</li> </ul>                                    |
| TH 10/29   | Maximizing Perception of Speech: Auditory Cues & Auditory Training<br><br><b>Quiz 8 posted by NOON</b><br><br><b>Experience Hearing Loss (Assignment #2 due in class)</b>  | <ul style="list-style-type: none"> <li>• T-M: Ch. 4</li> </ul>  |
| F 10/30  | LAB 10: Hearing Aids   |   |
| <b>QUIZ 8 DUE NOON, MONDAY 11/2</b>                |  |   |
| TU 11/03   | Maximizing Perception of Speech: Visual Cues & Speech Reading  | <ul style="list-style-type: none"> <li>• T-M: Ch. 5, 6</li> </ul>   |

| SPLH 668: Lecture, Lab and Reading Schedule (p. 4) |   |                                       |
|--|---|---------------------------------------|
| Session  | Topic   | Readings                              |
| TH 11/05   | Conversation & Communication:<br>Communication Strategies<br><b>Quiz 9 posted by NOON</b>   | • T-M: Ch. 7, 9                       |
| F 11/06  | LAB 11: Assistive Listening Devices   |                                       |
| <b>QUIZ 9 DUE NOON, MONDAY 11/9</b>                |   |                                       |
| TU 11/10   | Conversation & Communication:<br>Communication Strategies ( <i>cont.</i> )  | • T-M: Ch. 7, 9 ( <i>cont.</i> )      |
| TH 11/12   | <b>EXAM 3</b>   |                                       |
| F 11/13  | LAB 12: Aural Rehabilitation for Adults   |                                       |
| TU 11/17   | Adult AR: Impact of Hearing Loss, Adjustment<br>to Hearing Loss, & the AR Plan  | • T-M: Ch. 11, 12                     |
| TH 11/19   | Adult AR: Impact of Hearing Loss, Adjustment<br>to Hearing Loss, & the AR Plan ( <i>cont.</i> )<br><b>Observation of Hearing Evaluation<br/>(Assignment #1) due in class</b><br><b>Quiz 10 posted by NOON</b> | • T-M: Ch. 11, 12<br>( <i>cont.</i> ) |
| F 11/20  | LAB 13: Freedom to Hear Video   |                                       |
| <b>QUIZ 10 DUE NOON, MONDAY 11/23</b>              |   |                                       |
| TU 11/24   | Adult AR: Special Considerations for the<br>Elderly<br><b>Hearing Evaluation (Assignment #3) due in<br/>class</b>   | • T-M: Ch. 13                         |
| TH 11/26   | <b>NO CLASS – THANKSGIVING BREAK</b>  |                                       |
| F 11/27  | <b>NO LABS – THANKSGIVING BREAK</b>   |                                       |
| TU 12/01   | Pediatric AR: Infants & Toddlers  | • T-M: Ch. 14                         |
| TH 12/03   | Pediatric AR: Infants & Toddlers ( <i>cont.</i> )<br><b>Quiz 11 posted by NOON</b>  | • T-M: Ch. 14 ( <i>cont.</i> )        |
| F 12/04  | LAB 14: Aural Rehabilitation for Young Children   |                                       |
| <b>QUIZ 11 DUE NOON, MONDAY 12/7</b>               |   |                                       |

| SPLH 668: Lecture, Lab and Reading Schedule (p. 5)                  |  |                                |
|---|--|--------------------------------|
| Session   | Topic  | Readings                       |
| TU 12/08  | Pediatric AR: School Age Kids                  | • T-M: Ch. 15                  |
| TH 12/10  | Pediatric AR: School Age Kids ( <i>cont.</i> ) | • T-M: Ch. 15 ( <i>cont.</i> ) |
| F 12/11   | <b>NO LAB – STOP DAY</b>                       |                                |
| <b><u>TUESDAY</u> 12/15/09      FINAL EXAM      7:30 – 10:00 AM</b> |  |                                |