SPH 559/659 Clinical Studies, Adult Hearing Assessment and Hearing Instruments

Second Year

Description of Course
The purpose of this clinical rotation is to further develop assessment and amplification skills as indicated below during a student’s second year of on-campus adult clinical assessment.

Instructor and Contact Information
Instructor: Aileen Wong, Au.D.
Office: SLHS Room 207B
Telephone: 626-9160
E-mail: annw16@email.arizona.edu
Office Hours: Email for an appointment
Location: SLHS Clinic
Times: Variable times M-F; 8:00am-5:00pm

Course Format and Teaching Methods
This course will include time spent in clinic with patients. In addition, time to write notes, check in or troubleshoot hearing aid instruments and other assistive listening devices, and time to meet to discuss clinic experiences will be expected.

Course Objectives and Expected Learning Outcomes
- To insure that the student becomes efficient with the procedures of the basic audiologic evaluation.
- To provide opportunities for the student to develop counseling skills regarding test results, communication strategies and recommendations.
- To familiarize the student with advanced elements of hearing aid selection, digital processing strategies, noise reduction methods and other technology.
- To provide an opportunity for students to actively participate in the hearing aid selection process.
- To familiarize the student with software, fitting, fine-tuning and verification associated with advanced technology instruments.
- To allow the student to participate in the follow-up, fine tuning and validation process with advanced technology instruments.
- To insure that the student is comfortable with hearing aid troubleshooting, repair and modification.

Absence and Class Participation Policy
Participating in the clinic is vital to the learning process. As such, attendance is required. As the entire nature of this enrollment is to provide opportunities for clinical experience, attendance is critical. Less attendance equals less experience. If a student is unable to attend clinic for more than 16 hours (4 half-days) for whatever reason (illness, scheduled travel, etc.), the students grade will be reduced by at least 10% (one letter grade). If circumstances warrant it, they may be given an incomplete instead. Students are expected to notify Dr. Wong at least three weeks in advance of any scheduled absence and prior to 8:00 AM by email or cell phone (480.268.6420) regarding any unscheduled absence due to illness or emergency.
The UA’s policy concerning Class Attendance, Participation, and Administrative Drops is available at [http://catalog.arizona.edu/2015-16/policies/classatten.htm](http://catalog.arizona.edu/2015-16/policies/classatten.htm)

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### Course Communications

Means by which communication will be conducted include discussion before, after, and during scheduled clinic, and via email. Additional meetings will be scheduled as needed in a weekly meeting time. If any concerns or issues arise, it is expected that you communicate with your clinical instructor in a timely manner.

### Grading Scale and Policies

You will be graded using the CALIPSO grading system which will be discussed at the beginning of the rotation and reviewed with you at the midterm and end of the semester. There will be no re-grading for this course. There is no official final exam for this course.

Letter grades are awarded depending upon the skill set provided. Grades will be assigned as follows:

- **A = Above expectations** Demonstrates core level skills and accurate clinical decisions independently by the end of the semester at least 90% of the time and demonstrates a high level of clinical involvement as exhibited by going beyond the regular clinic appointment to seek information. Performs significantly above the level expected for a student of their “level” in the program in nearly every area.

- **B = At expectations**: Demonstrates core level skills and accurate clinical decisions independently by the end of the semester at least 80% of the time.

- **C = Below expectations** Demonstrates some core level skills but with prompting by the preceptor and is unable to make independent clinical decisions by the end of the semester.

### Course Requirements:

- Regular attendance: A drop of one letter grade will be automatic for students missing more than two full clinic days. Opportunities for make-up clinics may be available, but should not be expected.
- Demonstration of skills: Students must demonstrate competence in each of the skill areas listed here to be judged “at expectations.”
- Report timeliness: All Lytec notes must be submitted by the end of the clinic day.

### Skills to be Acquired: (Pre-clinic Self-Assessment)

- **GREEN** = student is able to perform the skill accurately and independently with reasonable efficiency.
- **YELLOW** = student needs moderate assistance performing the skill
- **RED** = student is unable to complete the skill without help from the preceptor, cannot move forward in the appointment without assistance.

### Audiologic Evaluation

- Obtain an adult case history with little assistance from preceptor
- Perform otoscopy and determine degree of occlusion, normal vs. abnormal TM and external ear canal with some insight into the nature common abnormalities.
• Complete a basic audiologic evaluation including pure tone air and bone conduction testing, SRT and word recognition (30 minutes)
• Be able to use the Hood Masking procedures in most situations
• Complete immittance and acoustic reflex testing in less than 15 minutes, recording the results appropriately.
• Discuss audiometric test results with a patient and comment on the expected impact on communication ability.
• Discuss with patients common strategies for improving communication.

**Hearing Aid Selection**
• Be able to complete a hearing needs assessment (Ex: COSI)
• Develop with patients goals for amplification with appropriate specificity.
• Discuss with patients specific hearing aid features:
  o Directional microphones, including automatic vs. fixed
  o Advantages and limitations of various styles
  o Feedback cancellation
• Recommend to preceptor appropriate style and technology options.
• Make consistently well-formed ear impressions (4 of 5 usable).
• Independently complete paperwork and logging of hearing aid orders and repairs.

**Verification**
• Complete ANSI testing, linear and compression, with explanation of each result.
• Complete real ear (procedure): Tube insertion, hearing aid insertion with tube, completing test. Fine-tune hearing aid frequency response to fit real ear target.
• Fine-tune hearing aid based on patient comments including:
  o “Too loud” (with consideration of what is too loud and compression)
  o “My voice sounds funny”
  o Feedback

**Hearing Aid Orientation**
Perform hearing aid orientation with little preceptor assistance, including:
• Parts of hearing aid,
• Care of hearing aid,
• Insertion and removal, and
• Counseling re: realistic expectations and acclimatization.

**Modification**
• Minimize helix (acrylic and vinyl).
• Shorten canal (acrylic and vinyl).

**Troubleshooting:**
Independently diagnose and manage 60% of broken hearing aids.

**Validation:**
Become comfortable with use of the COSI and at least one other tool.

**Professional Skills:**
• To demonstrate preparedness for appointments and completion of patient follow up in a timely manner
• To be professional with clients, co-workers, preceptors, staff and outside agencies
• To demonstrate a work-life balance that is conducive to learning and excellent patient care

**Documentation:**
• Write chart notes and reports that require five or fewer modification.
• Complete CFR (Chart notes, Face sheet update, and Recall appointment) for each patient.
• Speak in a manner that is conducive to communicating with hearing impaired individuals near
(80% or greater) to that of an experienced audiologist.

**Associated Skills Required:**
- Manage a clinical appointment
- Think critically and problem solve
- Make independent decisions
- Timeliness (in preparing for clinic time and in responding to clinical communications)
- Appropriate dress and demeanor
- Respectful and appropriate interactions with patients, staff, peers and professors
- Integrity in the workplace
- Taking responsibility for your patients’ care

**Classroom Behavior Policy**
To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

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If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.

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**UA Nondiscrimination and Anti-harassment Policy**
The University is committed to creating and maintaining an environment free of discrimination; see [http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy](http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy).

Our clinic is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

**Additional Resources for Students**
### Subject to Change Statement

Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.

### ASHA Standards Covered in This Rotation (Re: 2011 Standards)

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Second Year

Description of Course
The purpose of this clinical rotation is to further develop assessment and amplification skills as indicated below during a student’s second year of on-campus adult clinical assessment.

Instructor and Contact Information
Instructor: Erica Hansen, Au.D.
Office: SLHS Room 405F
Telephone: 626-5623
E-mail: ehansen2@email.arizona.edu
Office Hours: Email for an appointment, but if my door is open, you can come in
Location: SLHS Clinic
Times: Variable times M-F; 8:30am-4:30pm

Course Format and Teaching Methods
This course will include time spent in clinic with patients. In addition, time to write notes, check in or troubleshoot hearing aid instruments and other assistive listening devices, and time to meet to discuss clinic experiences will be expected.

Course Objectives and Expected Learning Outcomes
- To insure that the student becomes efficient with the procedures of the basic audiologic evaluation.
- To provide opportunities for the student to develop counseling skills regarding test results, communication strategies and recommendations.
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Absence and Class Participation Policy
Participating in the clinic is vital to the learning process. As such, attendance is required. As the entire nature of this enrollment is to provide opportunities for clinical experience, attendance is critical. Less attendance equals less experience. If a student is unable to attend clinic for more than 8 hours (2 half-days) for whatever reason (illness, scheduled travel, etc.), the students grade will be reduced by at least 10% (one letter grade). If circumstances warrant it, they may be given an incomplete instead. Students are expected to notify Dr. Hansen at least three weeks in advanced of any scheduled absence and prior to 8:00 AM by email or cell phone (928.853.2983) regarding any
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**Grading Scale and Policies**

You will be graded using the CALIPSO grading system which will be discussed at the beginning of the rotation and reviewed with you at the midterm and end of the semester.

Students who are able to demonstrate skills in all these areas are at expectations. Students who demonstrate skills in all these areas AND in additional areas expected only of more advanced students are above expectations. Students who are not able to demonstrate skills in these areas are below expectations. Grades will be assigned as follows:

- **A = Above expectations** Demonstrates core level skills and accurate clinical decisions independently by the end of the semester at least 90% of the time and demonstrates a high level of clinical involvement as exhibited by going beyond the regular clinic appointment to seek information. Performs significantly above the level expected for a student of their “level” in the program in nearly every area.

- **B = At expectations**: Demonstrates core level skills and accurate clinical decisions independently by the end of the semester at least 80% of the time.

- **C = Below expectations** Demonstrates some core level skills but with prompting by the preceptor and is unable to make independent clinical decisions by the end of the semester.

**Course Requirements:**

- Regular attendance: A drop of one letter grade will be automatic for students missing more than two clinics. Opportunities for make up clinics may be available, but should not be expected.
- Demonstration of skills: Students must demonstrate competence in each of the skill areas listed here to be judged “at expectations.”
- Report timeliness: Please see the attached policy
- There is no required reading or final examination for this course

**Skills to be Acquired:** At the completion of this clinic rotation, students are expected to be able to:

**Audiologic Evaluation**

- Obtain an adult case history with little assistance from preceptor
- Perform otoscopy and determine degree of occlusion, normal vs. abnormal TM and external ear canal with some insight into the nature common abnormalities.
• Complete a basic audiologic evaluation including pure tone air and bone conduction testing, SRT and word recognition (30 minutes)
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**Hearing Aid Selection**
- Develop with patients goals for amplification with appropriate specificity.
- Discuss with patients:
  - Directional microphones, including automatic vs. fixed
  - Advantages and limitations of various styles
  - Feedback cancellation
- Recommend to preceptor appropriate style and technology options.
- Make consistently well-formed ear impressions (4 of 5 usable).
- Independently complete paperwork and logging of hearing aid orders and repairs.

**Verification**
- Complete ANSI testing, linear and compression, with explanation of each result.
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**Hearing Aid Orientation**
Perform hearing aid orientation with little preceptor assistant, including:
- Parts of hearing aid,
- Care of hearing aid,
- Insertion and removal, and
- Counseling re: realistic expectations and acclimatization.

**Modification**
- Minimize helix (acrylic and vinyl).
- Shorten canal (acrylic and vinyl).

**Troubleshooting:** Independently diagnose and manage 60% of broken hearing aids.

**Validation:**
Become comfortable with use of the COSI and at least one other tool.

**Professionalism:**
- To demonstrate preparedness for appointments and completion of patient follow up in a timely manner
- To be professional with clients, co-workers, preceptors, staff and outside agencies

**Documentation:**
- Write chart notes and reports that require five or fewer modification.
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