

**The University of Western Ontario  
School of Communication Sciences & Disorders  
CSD 9530 Adult Hearing Disorders**

**Winter 2020**

- Instructor:** Susan Stanton, Ph.D.  
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Office Hours: By appointment  
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- Lectures:** Thursday 1:30-4:30 pm Elborn College, Room 1555
- Text:** *Disorders of the Auditory System* (2011) Musiek FE, Baran JA, Shinn JB, Jones, RO (Recommended; not required)
- Teaching Assistant:** Danielle Leah DiFabio  
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**Course Description**

This course will cover adult hearing disorders from a multidisciplinary perspective, and will encompass both audiological and medical approaches to assessment, diagnosis, and treatment. Students will build on foundation knowledge in anatomy, physiology and clinical practice in order to attain an understanding of the etiology, pathogenesis and assessment techniques used to investigate disorders affecting the peripheral and central auditory system. Emerging issues in research and clinical practice, and the evidence-base relevant to the diagnosis and management of adult hearing disorders, will be considered through readings and assignments.

**Course Learning Outcomes**

Students will be able to:

1. Identify and describe hearing disorders in adults using clinical classification criteria and terminology
2. Explain the audiological and medical protocols used to assess the auditory system and treat adult hearing disorders
3. Understand and describe different mechanisms of damage to the auditory system, and how environmental and genetic factors contribute to the etiology and pathology of adult hearing disorders
4. Evaluate the evidence-base for the evaluation and treatment of tinnitus.

**Course Format**

Evaluation of student competencies will be measured by 3 tests (closed book) and participation in class activities which include hearing disorder, case study and tinnitus

assignments, oral presentations with powerpoints, and class discussion. Grades are based on both Individual and Group Work Components (see below for grading details).

### **Required Course Readings**

Readings will be assigned on a weekly basis and should be completed before class on the date assigned; details will be posted in the CSD 9530 OWL website. You are responsible for all of the assigned readings and may be tested on the material regardless of whether or not it is covered in class.

### **Course Grade Weighting Summary**

- 1. Individual Work Component: 80 points**
    - a. **Tests: 45 points**
    - b. **Case Study: 15 points**
    - c. **Class Assignments & Participation: 20 points**
  - 2. Group Work Component: 20 points**
- Total: 100 points**

### **Grade Weighting Details**

#### **I. Individual Work Component:**

##### **1. Tests: 45 points**

There will be 3 tests (closed book) worth 15 points each, and a total of 45 points toward your overall grade. The tests will have a mixed format and may include: multiple choice, true/false, fill-in-the-blank, short answer questions, essay questions, and case studies. See course schedule for additional information.

##### **2. Case Study - Oral Presentation & Powerpoint: 15 points**

A clinical case will be developed on an assigned hearing disorder topic. An oral presentation and powerpoint will be prepared and presented to peers and the powerpoint file will be submitted for grading.

##### **3. Class Assignments & Participation: 20 points**

Students will receive instruction and use time in class to complete research database searches and assignments related to tinnitus and clinical case topics.

- a. **PubMed Search:** Tinnitus topic database search methods and results
- b. **Evidence-based Review:** evidence-based review of 2 publications resulting from 3a above

**Total: 80 points**

#### **II. Group Work Component: Tinnitus Presentation**

Students will work collaboratively to evaluate and synthesize the evidence and provide recommendations regarding the clinical assessment and management of tinnitus. The group will evaluate the evidence, create a powerpoint presentation and deliver an oral presentation to the class on their findings. Grade weighting is as follows:

- 1. Class Presentation: 10 points**
- 2. Powerpoint: 10 points**
- 3. Peer Review by Group Members: 0 to -3**

**Total: 20 points**

## **Course Grade: Passing Grade Criteria & Methods of Evaluation**

**Course Grade Calculation:** The passing grade for this course is 60%. Point scores are received for both Individual and Group Work components of this course (see below for details). Specific criteria are used to determine whether you achieve a passing course grade of 60%, in the following order:

**Criteria 1 - Individual Work Component:** You must attain at least 48/80 points for the *Individual Work Component* (exam, quizzes & assignments) to be eligible to pass this course.

**Note:** If you do not meet Criteria 1 (i.e. do not achieve 48/80 points on the Individual Work Component):

1. the highest *final course grade* possible is 59%
2. the final course grade will be the lower of: a) 59% and b) your grade calculated as usual according to the grade weighting information given below.

*In other words, the highest grade possible if individual work is not passed would be 59%.*

**Criteria 2 – Individual + Group Work components:** You must meet Criteria 1 **AND** attain at least 60/100 total points (combined Individual and Group Work components) for an overall grade of 60% in order to pass this course. If you meet Criteria 1, your submitted final course grade will be based on the grade weighting details provided below.

**Course Grade Rounding:** The policy of the CSD program is that the assigned course grade is the instructor's final assessment of a student's performance and already includes any and all grade rounding an instructor has chosen to implement. Assigned grades "close to" 60% or other letter-grade boundaries will not be further rounded up, with the exception that grades submitted with decimal percentages are rounded up or down to the nearest integer by the Registrar before appearing on the student's record. Students are referred to the CSD student handbook for additional policies regarding academic evaluation.

## **Incomplete Policy**

**Attendance and Participation:** Class attendance is expected. Please inform the instructor by email in advance, that you will miss a class, an exam or an assignment due date. Late submission of assignments without penalty, and make-up for the exam and quizzes will not be allowed except in unusual circumstances and will be at the discretion of the instructor (e.g. medical/compassionate reasons with documentation - see below). Accommodations must be discussed with the instructor prior to the due date, or within two working days if this is not possible.

**Late Assignments:** Original written documentation of acute medical or compassionate reasons is required if you fail to submit an assignment by the due date (see Documentation and Procedures below). Whenever possible, the documentation should be provided on the day of, or within two working days after the scheduled due date. Late assignments *without* satisfactory documentation and *approval* from the course instructor will receive 50% off the grade for that assignment

**Missed Exams and Quizzes:** If you miss a scheduled exam or in-class quiz, you will not be allowed to write the exam or quiz without satisfactory, original written documentation of acute medical or compassionate reasons (see Documentation and Procedures below). Whenever

possible, the documentation should be provided on the day of or within two working days after the scheduled exam. The penalty for missing an exam or quiz without authorization from the course instructor is a grade of 0 for that exam or quiz.

**Documentation and Procedures:** In accordance with Western's accommodation policies, a Western Student Medical Certificate (SMC) is required when you are seeking academic accommodation due to illness. For more detailed information about the types of documentation required for medical and compassionate reasons, and a downloadable Western SMC form, visit:

[https://www.uwo.ca/arts/counselling/procedures/medical\\_accommodation.html](https://www.uwo.ca/arts/counselling/procedures/medical_accommodation.html)

## **Additional Course Policies & Procedures**

### **Classroom Conduct**

Students are expected to maintain the same high standards of conduct and moral judgment in the classroom as will be expected when they become Speech-Language Pathologists/Audiologists. Therefore, students are asked to comply with the following reasonable expectations for classroom conduct:

1. Students and the instructor will behave in a manner that is welcoming, supportive, and respectful of cultural and individual differences at all times.
2. Students are expected to contribute during lectures, peer presentations and group activities by asking questions and providing comments.
3. Conduct that could distract fellow students or the instructor during a lecture must be avoided. This includes but is not limited to talking when others are speaking, passing notes, sleeping, and overt inattention.
4. If you are unavoidably late for class, please enter quietly. If this is going to be a regular occurrence (e.g. due to clinical schedule) please discuss the situation with the instructor at the beginning of the semester.
5. Personal electronic devices are to be turned off during class. Receiving and sending text messages should not be undertaken during lectures, peer presentations or group activities.
6. Computers may be used solely for the purpose of this course (e.g., taking notes, completing in-class activities). Students must not browse the web, use email, engage in instant messaging or any activities that are not directly related to this course (e.g. work on unrelated academic or clinical activities).

The University Of Western Ontario Student Code Of Conduct applies to the classroom setting, lab, and use of the course website as described in:

[The University's Code of Student Conduct \(.pdf\)](#)

### **Academic Integrity**

Scholastic offences are taken seriously and will be handled according to Western University policies. Students are required to cite and give credit to, where appropriate, the sources and authors of information and are responsible for understanding the nature of plagiarism and other academic offenses. Students are directed to review information and policies related to scholastic offenses, as provided at the Faculty of Graduate & Postdoctoral Studies web site:

[http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_grad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_grad.pdf)

All required papers may be subject to submission for textual similarity review to the commercial plagiarism-detection software under license to the University for the detection of

plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>)

### **Accessibility & Accommodations**

The University of Western Ontario is committed to providing accommodations and/or services to students with documented disabilities. Contact Student Accessibility Services (SAS) at <http://www.sdc.uwo.ca/ssd/> or 519-661-2111 ext. 82147 to register for services, or if you have questions regarding an accommodation. Students who are seeking support for a disability or a suspected disability must follow established procedures as outlined on the SAS website: <http://www.sdc.uwo.ca/ssd/>.

### **Health and Wellness**

As part of a successful graduate student experience at Western, we encourage students to make their health and wellness a priority. Western provides several on campus health-related services to help you achieve optimum health and engage in healthy living while pursuing your graduate degree. For example, to support physical activity, all students, as part of their registration, receive membership in Western's Campus Recreation Centre. Numerous cultural events are offered throughout the year. Please check out the Faculty of Music web page <http://www.music.uwo.ca/>, and our own McIntosh Gallery at <http://www.mcintoshgallery.ca/>. Information regarding health- and wellness-related services available to students may be found at <http://www.health.uwo.ca/>

Students who are in emotional/mental distress, or know of someone who is, are advised to speak to someone they feel comfortable confiding in (faculty supervisor, program director, graduate chair, or other relevant administrators in their unit) and also refer to:

**Health and Well Being** at <http://www.uwo.ca/uwocom/mentalhealth/>

**Resource Guide:**

[http://studentexperience.uwo.ca/student\\_experience/wellness\\_initiatives/mental\\_health\\_resource\\_guide.html](http://studentexperience.uwo.ca/student_experience/wellness_initiatives/mental_health_resource_guide.html)

### **Additional Support Services**

For information see:

**Student Development Centre:** <http://www.sdc.uwo.ca/>

**USC Student Support Services:** <https://westernusc.ca/student-support/>

**Office of the Registrar:** <http://www.registrar.uwo.ca/>

**Schedule: CSD 9530b Winter Semester 2020**

**Note:** schedule is subject to change

Date	Topics	Activities, Assignments & Presentations
<p><b><u>Week 1:</u></b> Jan 9</p>	<p><b>Syllabus Review</b> <b>Auditory Pathophysiology:</b> <i>Hearing Loss Genetics &amp; Implications for clinical practice</i></p>	<p><b>Sign-Up:</b> <i>Tinnitus Group Themes</i> <b>Sign-Up:</b> <i>Case Studies</i></p>
<p><b><u>Week 2:</u></b> Jan 16</p>	<p><b>Tinnitus:</b> <i>Evidence-Based Guidelines for Clinical Practice</i></p>	<p><b>Class Activity:</b> <i>PubMed Database Search Strategy with David Lesauvage (Librarian). The goal is to complete Assignment 1 in class.</i></p> <p><b>Assignment 1:</b> <i>PubMed Search Strategy-Tinnitus: Method and Results</i> <b>Due Date:</b> <i>Jan 23; Submit in OWL</i></p>
<p><b><u>Week 3:</u></b> Jan 23</p>	<p><b>Hearing Disorders:</b> <i>Overview</i> <b>Middle Ear Disorders:</b> <i>Eustachian Tube, Glomus Tumours</i></p>	<p><b>Class Activity:</b> <i>Tinnitus Groups meet to:</i></p> <ol style="list-style-type: none"> <li>1. <i>Compare your PubMed Database Search Strategy results (from Assignment 1).</i></li> <li>2. <i>Choose final list of papers for your group powerpoint presentation</i></li> <li>3. <i>Allocate papers among group members for completion of Assignment 2.</i></li> </ol> <p><b>Assignment 2:</b> <i>Evidence Based Review of selected papers from the PubMed Database Search Strategy results (Assignment 1).</i> <b>Due Date:</b> <i>Jan 30; Submit in OWL</i></p>
<p><b><u>Week 4:</u></b></p>	<p><b>Middle Ear Disorders:</b> <i>Cholesteatoma</i></p>	

Jan 30		<b>Student Cases:</b> Middle Ear (with possible Inner Ear involvement)
<b>Week 5:</b> Feb 6	<b>Inner &amp; Middle Ear Disorders:</b> <i>Temporal Bone Trauma</i> <b>Inner &amp; Middle Ear Disorders:</b> <i>Otosclerosis</i>	<b>Student Cases:</b> Middle Ear (with possible Inner Ear involvement)
<b>Week 6:</b> Feb 13	<b>Inner Ear Disorders:</b> <i>SSCD, Meniere's Disease &amp; Endolymphatic Hydrops</i>	<b>Student Cases:</b> Inner Ear
<b>Week 7:</b> Feb 20	<b>NO CLASS</b>	<b>Group Meetings:</b> <i>Tinnitus groups meet to prepare powerpoint and oral presentation.</i>
<b>Week 8:</b> Feb 27	<b>TEST 1</b> <b>Inner Ear Disorders:</b> <i>Sudden/Progressive HL, Ototoxicity</i>	<b>Student Cases:</b> Inner Ear
<b>Week 9:</b> Mar 5	<b>Inner Ear Disorders:</b> <i>Sudden/Progressive HL, Ototoxicity</i>	<b>Student Cases:</b> Inner Ear <b>Class Activity:</b> <i>Tinnitus Groups meet to complete Class Presentation</i>
<b>Week 10:</b> Mar 12	<b>Retrocochlear &amp; Complex Disorders:</b> <i>Acoustic Neuroma, Presbycusis, Noise</i>	<b>Tinnitus : Group Presentations</b>
<b>Week 11:</b> Mar 19	<b>Retrocochlear &amp; Complex Disorders:</b> <i>Presbycusis, Noise Diabetes</i>	<b>Tinnitus : Group Presentations</b>

<p><b><u>Week 12:</u></b> Mar 26</p>	<p><b>TEST 2</b></p>	<p><b>Tinnitus : Group Presentations</b></p>
<p><b><u>Week 13:</u></b> Apr 2</p>	<p><b>Guest Speakers</b></p>	
<p><b>TEST 3: Final Exam period (date TBD)</b></p>		

**see OWL for additional details and instructions**