

Introduction to Audiology 01:615:393

Fall 2016

Instructor: Maria T. Abel, M.A., CCC-A

Prerequisites: LING 201

Course Website: access via <http://sakai.rutgers.edu>

Textbook companion website: http://wps.prenhall.com/chet_martin_audiology_11/

Required Text

Martin, Frederick N. and John G. Clark. 2015. Introduction to Audiology. 12th Edition. Pearson.

ISBN: 9781323520802.

I have created a custom text which is available from the Rutgers University Bookstore for \$119.85. An e-text version of the custom text is available at <https://collections.pearsoned.com/#purchaseebook/1323520821> and will be delivered online via Pearson Collections for \$49.90. (Click on the link above to purchase access to the course materials. If you already have a Pearson user account, sign-in with your username/password; if you do not, you will be asked to create a Pearson account prior to purchasing the course materials.)

I have selected these materials specifically for this class so they align with what we will cover in the course. This custom text contains only the chapters that are necessary for this class. This option provides you with a less expensive textbook as well as an economical digital version for the class. All chapters and page numbers in the syllabus are based on the custom text.

The textbook companion website provides access to additional study materials, including interactive case studies.

http://wps.prenhall.com/chet_martin_audiology_11/

NOTE when you access this site it can take several minutes for the website to fully load, even if your “thinking” icon has stopped.

Course Meeting Time: Online; asynchronous

Course Description

The modern practice of audiology has evolved into its own distinct field which blends the science of hearing and differential diagnosis with the art of patient treatment for hearing loss and balance disorders. Hearing is crucial to speech development, affecting phonologic, morphologic, syntactic, and pragmatic aspects of human communication. This course introduces students to the profession and practice of audiology through an overview of the anatomy (structure) and physiology (function) of the auditory

system, the physical properties of sound relevant to hearing assessment, techniques for hearing assessment, and auditory disorders. This course covers prerequisite content required for students planning to pursue a higher-level degree in the speech and hearing sciences, including speech pathology and audiology.

Is an online course right for you?

An online course requires different skill sets for success than a traditionally-delivered course. In particular, you must be more responsible for managing your own success in an online course, such as by ensuring you have the time and resources to complete the work, completing the assigned study questions, using the supplemental textbook materials, and contacting me early for help with challenging material.

The material covered in this class will require a great deal of memorization and comprehension of challenging concepts. I will provide resources to guide you, but it is up to **you** to find and use the methods that work best for you.

This

course is designed to have the same workload as a traditional, face-to-face class – approximately nine hours of work per week – but instead of simply showing up for lectures, you will demonstrate your work effort primarily through your success on the frequent quizzes and the cumulative exams.

Students who are most successful in online courses tend to be independent, organized, disciplined, and flexible. Please consider carefully whether your learning style and work traits are conducive to success in an online environment, and contact me if you have any questions or concerns. The University of Missouri offers [this self-assessment](#) for evaluating your potential for success in an online course, as well as these useful links, [Tips for Academic Success in Online Study](#) , [Tips for Time Management](#), [tips for becoming a better self-directed learner](#), and [myths regarding online courses](#).

Internet Access Policy: If the following statements accurately describe you, then you meet the basic technology access requirements needed to succeed in online studies. If not, you may need more help in this area before enrolling in an online course.

I own or have access to a computer on a daily basis (e.g., desktop, laptop, or tablet computer).

I can connect to the Internet with "Basic Broadband" access (i.e., download speed of 3 mbps or higher) on a daily basis

It is vital for this course that you have consistent and reliable internet access throughout the duration of the semester. A tremendous amount of information and resources for this class are available through the Sakai site and online, and your ability to access them is imperative for a successful semester.

Email reply policy: I will respond to emails within 24 hours during the work-week and by the next business day on weekends and holidays. I work very hard to manage emails for almost 50 students, I expect the same respect in return. I will provide feedback on assignments or other updates on the sakai worksite throughout the week. You are responsible for checking these resources several times a week.

FORUM: We will be utilizing the FORUM feature of the course website this term. I have setup a general discussion forum for each lesson. We will be using this feature to streamline questions throughout the semester. If you have a question about a topic specific to each unit, please ask your question in the forum. I will receive email notification when questions/comments are posted. Meaningful posts that demonstrate critical thinking will count toward class participation points (see following section). If you feel you are not getting adequate assistance in the forum, please feel free to email me directly. The forum is not graded, however, again it will count toward class participation.

Class Participation: Obviously we do not have a set “class” time in which to participate in throughout the semester. Class participation points can be accumulated throughout the semester through the forum. I will take note of those who contribute posts that demonstrate critical thinking. You will not be penalized if you do not participate in the Forum, however these points will come into play when assessing your final grade.

Learning Goals

The learning goals for this course support [2012 ASHA Audiology Certification Standards](#) IV-A and IV-C and will be assessed through written exams and quizzes.

Learning Goal	2012 ASHA Standard	Method of Assessment
Learn the anatomy and physiology of the auditory system.	IV-A	Written Quizzes & Exams
Learn the physical properties of sound relevant to hearing assessment	IV-A	Written Quizzes & Exams
Identify basic audiological diagnostic and screening procedures	IV-C	Written Quizzes & Exams
Interpret basic audiometric test findings	IV-C	Written Quizzes & Exams
Recognize common auditory disorders	IV-C	Written Quizzes & Exams

Assessments and Grading Policies

Quizzes (30%)

There are eight weekly reading quizzes. (see the schedule below for dates when the quiz will be available and/or needs to be completed).

Your lowest quiz grade will be dropped, so that only seven will count toward your final grade. Each quiz covers information from the PowerPoint notes and assigned chapters and may include multiple choice, matching, fill-in-the-blank, and diagram-labeling questions.

Each quiz will be available for three days and **may be opened at any time from 12:01 AM Wednesday morning until 11:59 PM Friday night**. Once you open a quiz, you will have a limited time to complete your work; depending on the quiz, you will have from 30 to 60 minutes to finish the quiz. If you do not complete the quiz within the allotted time, your quiz will close automatically and will be submitted for grading. The time allotted is definitely adequate for completing these quizzes.

***I STRONGLY recommend that you ensure you have a strong internet connection when completing your quizzes. I would also avoid using internet explorer during this timeframe. I have had much greater success when using firefox for the Sakai Site. Please ensure that you are not waiting until the last possible minute to complete your quizzes. They are available until 11:59pm on Friday night, however I WILL NOT make extensions to the quizzes if you encounter an issue with your internet access or the sakai website during the final hours of time you have allotted. Plan accordingly for the week so that you have adequate time to complete the quiz. The sakai helpdesk is available to you if you should encounter an issue, **please contact them at sakai@rutgers.edu or 848.445.8721. Sakai Help Desk representatives are available Monday through Friday 8:00AM-6:00PM.**

*Your scores on reading quizzes will demonstrate that you have completed the assigned reading and have comprehended the material. You are **strongly** encouraged to prepare for the quizzes by using the supplemental study materials on the textbook's companion website as well as those I have provided in the powerpoints as well as under the lessons tab on the Sakai site. Use your quiz scores to identify topics that you might need to review more carefully before the next exam. As a class, scores on reading quizzes will keep me apprised of our overall progress.*

Exams (60%)

This course includes a midterm and a final exam, each of which contributes 30% toward your final grade. Exams may include multiple-choice, matching, fill-in-the-blank, diagram-labeling and short answer questions.

Exams are “**closed book**”, completed without referring to notes, textbook, or other resources, and must be taken **in-person**, at the room 1210/1220 in the Rutgers Academic Building at 17 Seminary Place. Here's a link to a map: <http://rumaps.rutgers.edu/location/rutgers-academic-> Sign up for one of the available dates and times using the “Sign-up” tool on the course Sakai site.

SIGN UP IS TO BE COMPLETED NO LATER than 9/18.

Midterm	Oct. 27	Oct. 28	Oct. 28
	1:00-3:00 PM	9:00-11:0 0 AM	2:00-4:00 PM
Final*	Dec. 16		
	4:00-7:00 PM		

*FINAL: if this date does not work for you, please contact me immediately. I may have one additional session available that will be made available on a case by case basis.

You must bring a photo I.D. to the exam..

You are allowed 1.5 hours to complete the midterm and 2.5 hours to complete the final once it is opened. If you do not complete the exam by the allotted time, your exam will be automatically closed and submitted for grading.

Your scores on exams will demonstrate your sustained work effort and comprehensive knowledge of the course material.

Homework (10%)

Four activities have been assigned as homework during weeks that do not include scheduled quizzes or exams. To demonstrate that you have completed the assignment, follow the instructions and submit your work/answers. Specific directions for locating the activity and uploading your score will be available on the course website.

Your completion of homework assignments will demonstrate your class participation in the assigned weeks and will help you to prepare for the upcoming chapter quizzes.

Academic Integrity Policy

All students in this course must agree to the following Honor Policy:

Honor Policy:

By my honor, I agree that I will complete all weekly reading quizzes and exams without helping or receiving help from others, and without referring to my notes, textbook, or other resources.

You will see this Honor Policy appear on the Course Introduction Quiz you take during Week 1. By clicking “yes”, you will signal your agreement with this policy. In addition, you are expected to be familiar with and abide by [Rutgers University’s Academic Integrity Policy](#).

Any collaboration with other students to answer questions in reading quizzes or the exams is a violation of our class Honor Policy and Rutgers’ Academic Integrity Policy. Students caught cheating or committing plagiarism will be penalized, as per Rutgers policy.

Attendance and Late Work Policy

Because all work will be completed asynchronously for this course, there is no formal attendance policy; however, class engagement will be assessed through frequent quizzes. All exams and quizzes are available for multiple days. Please take note of the availability periods on the attached schedule and plan accordingly. Except for documented cases of illness or religious observance, **no credit** will be awarded for late work. Only under extenuating circumstances will exceptions be considered, and only if you contact me in advance.

Accommodations for Special Needs

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation:

<https://ods.rutgers.edu/students/documentation-guidelines>.

If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this

process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.

Course Evaluations

Anonymous evaluations of this course are welcome at any time; the sooner I become aware of a problem, the sooner it can be addressed.

Weekly Schedule

Unit	Reading	Topics	Assignments
Unit 1 9/6 – 9/9	Syllabus Ch. 1 p. 1-15	Course Introduction <ul style="list-style-type: none"> • Course Website, Materials & Policies Unit 1: The Profession of Audiology <ul style="list-style-type: none"> • Prevalence of Hearing Loss • Audiology Specialties 	<ul style="list-style-type: none"> • Course Intro./Unit 1 Quiz *Available 9/7 – 9/9
Unit 2 9/12 – 9/18	Ch. 2 p. 17-57	Unit 2: Sound and Its Measurement <ul style="list-style-type: none"> • Frequency, Period, Intensity, Wavelength • The Decibel • Complex Sounds • The Audiometer • Sound Level Meter • Calibration 	<ul style="list-style-type: none"> • HW 1 *Due by Friday 9/16 at 11:59 PM
Unit 2 Cont. 9/19 – 9/23			<ul style="list-style-type: none"> • Unit 2 Quiz *Available 9/21 – 9/23
Unit 3 9/26 – 10/02	Ch. 3 p. 59-66	Unit 3: The Human Ear The Outer Ear <ul style="list-style-type: none"> • Anatomy & Physiology *see Frequently asked questions p.77-78 and glossary p. 79-80 	<ul style="list-style-type: none"> • HW 2 *Due by Friday 9/30 at 11:59 PM
Unit 3 Cont. 10/3 – 10/7	Ch. 4 p. 81-88	The Middle Ear <ul style="list-style-type: none"> • Anatomy & Physiology *see Frequently asked questions p.115-116 and glossary p. 117-118 	<ul style="list-style-type: none"> • Unit 3 Quiz *Available 10/05 – 10/07
	Ch. 5 p. 120-133	The Inner Ear <ul style="list-style-type: none"> • Anatomy & Physiology 	

		*see frequently asked questions p. 160-162 and glossary p.163-165	
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Weekly schedule continued

Unit 4 10/10 – 10/16	Ch. 6 p. 172-184	<i>Unit 4: Pure-Tone Audiometry</i> <ul style="list-style-type: none"> • Types of Hearing Loss • AC vs. BC Pathways • Procedures for AC & BC Audiometry • Audiogram Interpretation • Masking 	<ul style="list-style-type: none"> • HW 3 *Due by Friday 10/14 at 11:59 PM
Unit 4 Cont. 10/17 – 10/21	Ch. 7 p.185-215		<ul style="list-style-type: none"> • Unit 4 Quiz *Available 10/19 – 10/21
Midterm 10/27 – 10/28	Midterm 10/27 – 1:00 – 3:00 pm 10/28 – 9:00 – 11:00 am or 10/28 – 2:00 – 4:00 pm		
Unit 5 10/31 – 11/4	Ch.8 p.216-248	<i>Unit 5: Speech Audiometry</i> <ul style="list-style-type: none"> • Equipment • Environment • Speech-Threshold & Word-Recognition Tests 	<ul style="list-style-type: none"> • Unit 5 Quiz *Available 11/02 – 11/04
Unit 6 11/07 – 11/11	Ch.9 p.249-286	<i>Unit 6: Physiological Tests of the Auditory System</i> <ul style="list-style-type: none"> • Acoustic immittance measurements • Auditory evoked potentials • Acoustic reflexes 	<ul style="list-style-type: none"> • Unit 6 Quiz *Available 11/09 – 11/11

Weekly Schedule Cont.

<p>Unit 7 11/14 – 11/20</p>	<p>Ch. 3 p. 66-80</p>	<p>Unit 7: Disorders of the Ear <i>The Outer Ear</i></p> <ul style="list-style-type: none"> Disorders 	<ul style="list-style-type: none"> HW 4 *Due by Friday 11/18 at 11:59 PM
<p>11/21- 11/27 THANKSGIVING HOLIDAY</p>	<p>Ch. 4 p. 89-119</p>	<p><i>The Middle Ear</i></p> <ul style="list-style-type: none"> Disorders 	<ul style="list-style-type: none"> Unit 7 Quiz *Available 11/30 – 12/02
<p>Unit 7 Cont. 11/16 – 12/2</p>	<p>Ch. 5 p. 134-166</p>	<p><i>The Inner Ear</i></p> <ul style="list-style-type: none"> Disorders 	
<p>Unit 8 12/5 – 12/9</p>	<p>Ch.10 p.287-319</p>	<p>Unit 8: Hearing Tests for Children <i>Audiological Screening Programs</i></p>	<ul style="list-style-type: none"> Unit 8 Quiz *Available 12/7 – 12/9
<p>Unit 9 12/10 – 12/15</p>	<p>Textbook Companion Website</p>	<p>Unit 9: Case Studies</p>	<ul style="list-style-type: none"> Look at Case Studies in partial preparation for Final Exam
<p>Finals Friday 12/16</p>	<p>December 16: 4:00 – 7:00 pm</p>		